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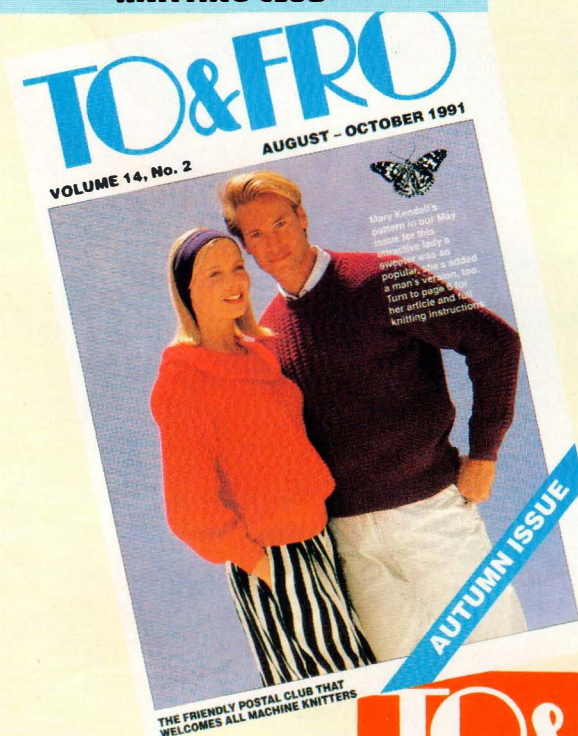


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C ontents

From the Editor

“ This is my favourite month of the autumn with all those fading greens, golden yellows and rich rusts of nature, displayed in that final and glorious burst of colour on the trees, hillsides and hedgerows. Our knitwear collection for this issue reflects that mood with a reminder of 'Indian Summer' days, which we should all make the most of at this time of year. We welcome knitwear designer Terry Armitstead who has worked on a special 'Indian Summer' theme with Jane Huntingford in our 'Geometric Gallery' – the results illustrate an exclusive and versatile dress design for you to knit – for all seasons. By the end of the month we will notice the change that the clocks bring with darker evenings drawing in and the approach of winter. The end of October will see the return of 'Hallowe'en' – a time for fancy dress parties – with the opportunity for joining in the traditional fun of witches, broomsticks and pumpkins. We've some great Hallowe'en designs in Swatch Spot – the kids will love them!

As promised, we start Kamalini Trentham's new series on the technique of machine knitted lace. With a particular focus on the Silver Reed lace carriage, Kamalini explains the basics and illustrates Part 1 with plain transfer lace samples, showing you how to translate a hand transfer chart into a punchcard for each sample. Just for fun, you will be given a small 'test' at the end of each of Kamalini's articles, with a chart to translate for yourself. Don't worry – you will be able to check your punchcard or design sheet straight away as we will publish the answer on another page!

As a special bonus, Silver Knitting Machines Ltd are offering two **Silver Reed Lace Carriages** as prizes for this month's Competition. So whilst you're polishing up your lace technique, set some time aside to polish up on your 'Silver' too!!

Until next time . . .

Sue

Sue Watson

Editorial

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Publisher & Managing Editor Anne Smith.

Editor Sue Watson.

Advertising Tel: 0628 770289.

Photography Francis Loney.

Stylist Annie Anderson.

Hair & Make Up Sue Sian.

Regular Contributors Betty Barnden,

Angela Gordon, Jane Huntingford,

Enk Weitz, Angie Gibbons.

Design by The Wells Partnership

You can write to Modern Machine Knitting at the following address: 3, Bridge Avenue, Maidenhead, Berkshire SL6 1RR. Our telephone number is (0628) 770289. Our fax number is (0628) 777335.

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Knitline

We bring you all the latest news on products, services and events from around the country

READER OFFER

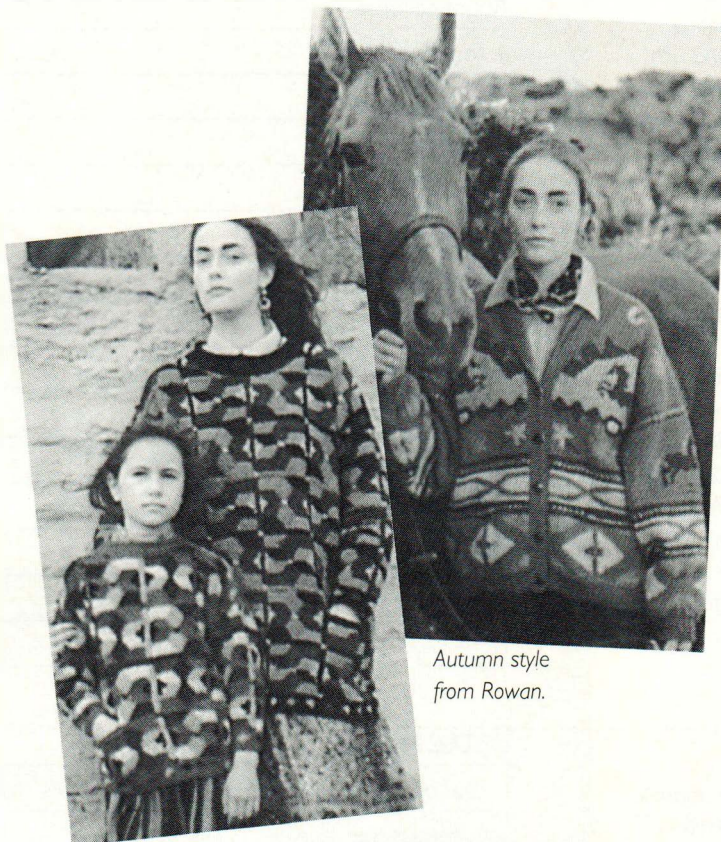
'EXPRESSION' the Knitting & Stitching Show celebrates its sixth year this autumn and the event will again take place at Alexandra Palace. The dates for your diary are 22nd to 25th October and the show will be open between 9.30am to 5.30pm. Adult tickets cost £6.00 but *Modern Machine Knitting* readers will be able to take advantage of the **SPECIAL OFFER** price of just £4.50 for the day by presenting the **TICKET COUPON** on this page.

Over two hundred companies will be exhibiting a wide range of knitting and needlecraft products and displays and this year visitors will be able to walk into complete room settings which include a studio bedroom designed by Kaffe Fassett and a country kitchen by Sasha Kagan. Knitwear enthusiasts will also be able to enjoy a History of Knitting Patterns set against a collection of modern designer knitwear.

To back up the event, a comprehensive programme of workshops and lectures has been organised to encompass a wide variety of topics and skills. These will give visitors the chance to learn more about the various aspects of

needlework and associated crafts, with something to suit everyone from beginners to those who already have experience in their field.

A 'sister show' will be launched this year for those who live in the north of England. This is scheduled for 4th to 6th December in Harrogate, Yorkshire. Look out for further details.



Autumn style
from Rowan.

THE NEW ROWAN COLLECTION

'C.E.C.I.L.Y.' is the title of the latest yarn collection for the coming autumn and winter season featured in Rowan Book Twelve. The new colour story is as vibrant as ever, displayed throughout the yarn range in a spectacular palette of shades and tones. For a rich warm feel Rowan have introduced new reds, pinks, oranges and greens – all inspirational for the new season's knits.

'Donegal Brights' is Rowan's new 4 ply which features seven lively colours to brighten up dull winter days – Com, Bumish, Cochineal, Aegean, Amethyst, Pea and Tomato – each shade perfect for use on its own to make instant impact. The yarn range also features all the well loved qualities which Rowan knitters have come to expect, with the introduction of several new colours to cater for

the new season's look. For example, the Magpie Aran range favours four new brights including Stinger, a rich tomato shade, Zsa Zsa deep golden yellow, Ringo – a vivid green and Punch, a real royal blue, whilst a new Peony red enhances the more natural tones of the Magpie Tweed collection.

The popularity of Chenille continues and Rowan's two qualities – the chunky and fine chenilles both feature rich velvet tones with an exotic feel. Look for Oasis (a rich deep woodland green); Flamenco and Cyclamen pink, and Laquer – a really rich horse chestnut tone.

In contrast, Kaffe Fassett's luxury Kid/Silk yarn features a mixture of naturals with deep smoky shades and clear light colours. Try deep Steel Blue, bright Pillar Box red or soft Violet Haze.

The Rowan DK range, which is both lightweight and suitable for machine knitting, covers a whole spectrum of colours in a variety of shades from darkest grey and black through to pale peach, lavender and green. The different colour tones on offer blend and mix together in an incredible display to give a choice of fifty seven shades to suit everyone's tastes. This pure wool quality DK is wonderful for showing off textured stitch patterns and the wide selection of colour tones makes it an ideal choice for designer style colour work.

TERRY'S TECHNIQUES

Terry Armitstead, designer of the 'Indian Summer' dress for 'Geometric Gallery' (see this issue of *Modern Machine Knitting*), has produced a set of machine knitting notes on how to make your garments real originals with a touch of designer detail. Called **'Terry's**



THE KNITTING & STITCHING SHOW

October Modern Machine Knitting **SPECIAL PRICE** ticket offer (to admit one adult).

Present this coupon at the ticket office on any day from October 22-25 to obtain your ticket for £4.50 (photocopies not acceptable).

Techniques' the notes include Twisted, Plaited and Knotted effects which can be incorporated into any plain garment to give the finished article a special look. All eight techniques produce detail which is just that bit different. They are suitable for single bed knitting and clear typed instructions are provided for each one. The cost of the set is £1.50 plus p&p (30p for first £3.00 of cost plus 20p for each additional £2.00).

Terry is also well known for his popular **'Sports Series'** for intarsia knitting. He is always working on new designs for this collection which already includes a footballer, tennis player, golfer, cricketer, skier, skater, and swimmer plus a choice of many other sporting figures. Full sized motifs are available for adult's garments and some designs have the option of male or female 'players'. A limited number are also available in a smaller version for children's wear. The sports intarsias are printed on individual graphs with a key of suggested colours and cost 75p each with p&p as above. Terry offers a special service for designing sports and

non-sports motifs to order, starting from a cost of around £5.00.

Terry has other publications on offer including Designer Garment Patterns and he is planning more 'Technique' booklets for the future. Knitting Clubs can book Terry and Jane Huntingford for a combined talk by phoning 0243 826125. For further information you can write to Terry at the following address:

16 Renoir Court
Fairlands Estate
Bognor Regis
West Sussex PO22 9AY

LEFT-HANDED SCISSORS

The latest range of scissors from **H Cubitt Bexfield** includes 14 different fully **left-handed** designs suitable for a variety of cutting - purposes, from dressmaking and household to manicure applications.

When a left-handed person uses ordinary right-handed scissors, there is a natural tendency to push the blades apart, thus reducing the

close contact required for efficient cutting action. On top of this problem, the 'pinch' or point of cutting is obscured by the upper blade, which makes accurate cutting extremely difficult for the left-handed user.

The new left-handed range of scissors have fully reversed blades which provide the same cutting performance expected by right-hand users. All scissors in the new range are of a very high quality and prices range according to the style and purpose for which they have been designed. Those illustrated in the photograph include from left to right: a pair of 3½ inch Nail Scissors; 8½ inch Spectrum Sidebent

Trimmers with stainless steel blades and yellow contoured handles (suitable for cutting out dress material - retailing at £3.99); and a pair of 7½ inch Mundial Pinking Shears with hot forged carbon steel blades, precision ground and set for long lasting performance - advanced dressmakers would find a pair of these invaluable (retail price £24.99). If you would like more details of the left-handed scissors range contact:

H Cubitt Bexfield Ltd
Mundial House
Kiveton Park Station
Kiveton Park
Sheffield S31 8NP
Tel: 0909 772866

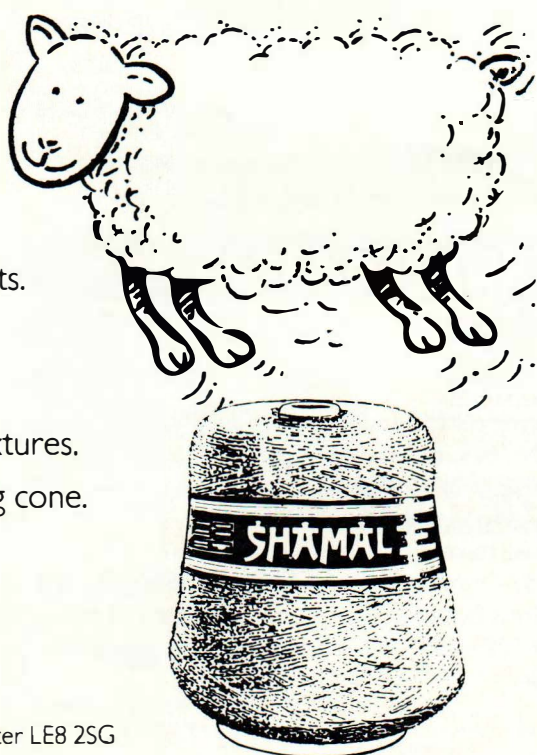


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Forsell

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Leaf patterned shirt

Copper leaves scattered on mossy green make this shirt-style sweater from the Silver Reed 'International Collection' the essence of Autumn. Double rib is used for the buttoned front bands and a collar that is beautifully shaped by the partial knitting technique.

FEATURING
SILVER REED
INTERNATIONAL
COLLECTION

FOR STANDARD GAUGE ELECTRONIC MACHINES WITH A RIBBER.

SIZES:

To fit 82-87 (92-97, 102-107) cm, 32-34 (36-38, 40-42) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:

4-ply Wool.

MC (Olive Green) – 280 (330, 380) grms.

C (Brownish Orange) – 200 (250, 300) grms.

2 buttons.

TENSIONS:

Fair Isle – 33 sts and 42 rows to 10 cm.

TD at approx 6 (MT).

1 x 1 Rib – 57 rows to 10 cm. TD at approx MT-5/MT-5.

Double Rib – 32 sts (on each bed) and 52 rows to 10 cm. TD at approx MT-4/MT-4.

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

When shaping collar, transfer appropriate ribber sts to main bed Ns, before pushing into HP.

When shaping in HP, always take yarn round first inside N in HP to prevent a hole forming.

Fair Isle – see chart.

Place needle 1 cam between Ns 30 and 31 at left of centre 0. Press button 1 (left light on) and button 2 (left light on for 580 and SK 840 machines or right light on for other models).

BACK

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 80 (88, 96) Ns at left and right of centre 0 to WP. 160 (176, 192) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 x 1 rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5/MT-5, K 41 rows. Transfer sts for st st. Insert card and lock on first row. Take carriage across twice without knitting. Set RC at 000. Using MT, K 1 row. Release card and cont in Fair Isle with MC in feeder 1 and C in feeder 2. K 125 rows. RC shows 126.

Shape Armholes

Cast off 5 sts at beg of next 2 rows, 3 sts at beg of next 2 rows and 2 sts at beg of next 4 (4, 6) rows. K 1 row. Dec 1 st at each end of next and every foll alt row until 130 (144, 156) sts rem, then on every foll 4th row until 126 (140, 152) sts rem *. K 68 (74, 80) rows. RC shows 216 (224, 232).

Shape Shoulders

Cast off 7 (9, 10) sts at beg of next 4 rows.

Shape Neck

Note patt row on card. Using a length of MC, cast off centre 36 sts. Using nylon cord, K 31 (34, 38) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. ** Cast off 7 (9, 10) sts at beg of next row and 4 sts at beg of next row. Rep from ** once more. Cast off rem 9 (8, 10) sts. With carriage

at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage across twice without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

FRONT

Work as for back to *. K 2 (8, 14) rows.

Shape Front Opening

Note patt row on card. Using a length of MC, cast off centre 8 sts. Using nylon cord, K 59 (66, 72) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 45 rows.

Shape Neck

Cast off 9 sts at beg of next row, K 1 row. Cast off 2 sts at beg of next and foll 2 alt rows, K 1 row. Dec 1 st at beg of next and every foll alt row until 37 (44, 50) sts rem.

Shape Shoulder

Cast off 7 (9, 10) sts at beg of next and foll 3 alt rows, K 1 row. Cast off rem 9 (8, 10) sts. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage across twice without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

SLEEVES

Push 43 Ns at left and right of centre 0 to WP. 86 Ns. Insert card and lock on first row. Using MT and WY, cast on and K a few rows



ending with carriage at left. Using MC, K 1 row. Set RC at 000. Release card and cont in Fair Isle with MC in feeder 1 and C in feeder 2. Shape sides by inc 1 st at each end of every 6th (5th, 4th) row until there are 108 (116, 156) sts, then on every foll 7th (5th, 5th) row until there are 132 (146, 160) sts. K 2 rows. RC shows 152.

Shape Top

Cast off 5 sts at beg of next 2 rows, 3 sts at beg of next 4 (8, 12) rows and 2 sts at beg of next 16 (14, 12) rows. Dec 1 st at each end of every foll alt row until 56 (62, 68) sts rem. Cast off 2 sts at beg of next 6 (8, 10) rows and 3 sts at beg of next 6 rows. Cast off rem 26 (28, 30) sts.

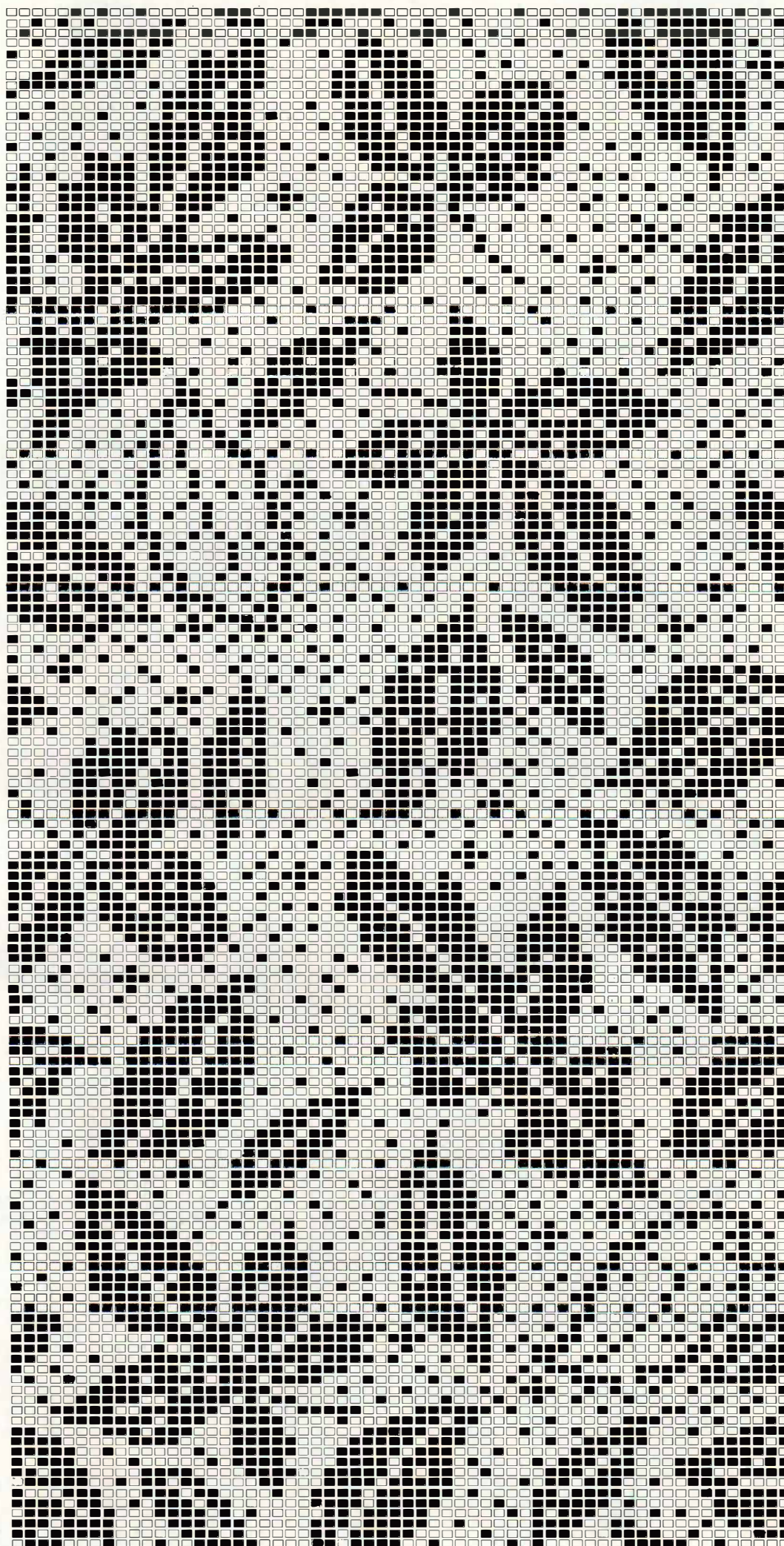
CUFFS

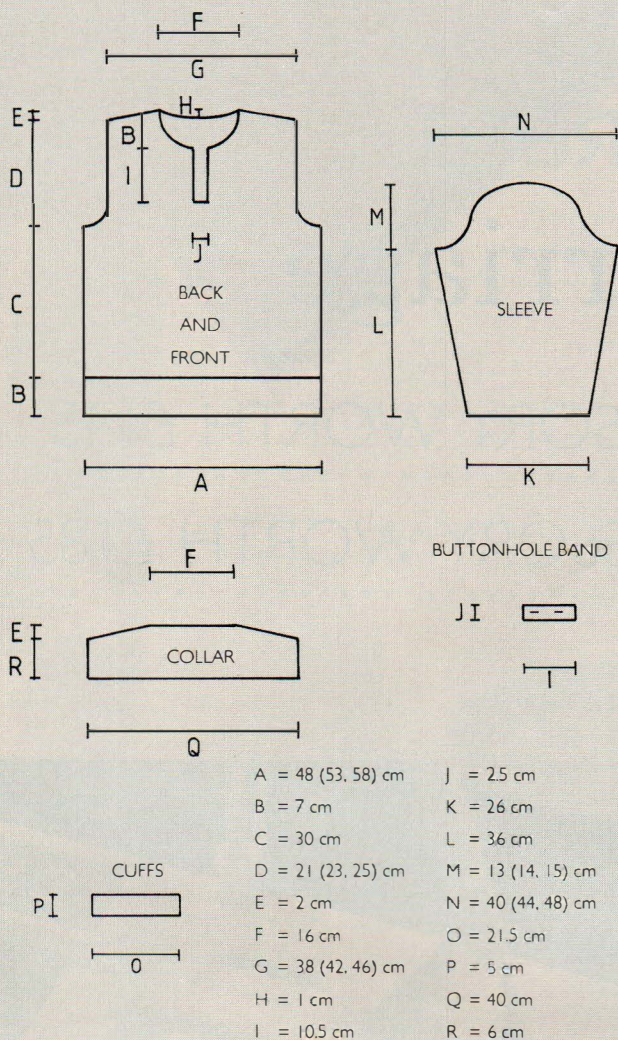
With ribber in position and carriage at left, set machine for 1 x 1 rib. Using MC, cast on 72 sts in 1 x 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5/MT-5, K 29 rows. Transfer sts for st st. With P side facing, replace 86 sts from lower edge of sleeve on to Ns gathering evenly. Using MT, K 1 row. Cast off.

BUTTONHOLE BAND

With ribber in position and carriage at left, set machine for double rib. Push 34 Ns on each bed to WP for double rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for double rib knitting. Set RC at 000. Using MT-3-/MT-3-, K 6 rows. Counting from left edge, make buttonholes over 4th, 5th, 6th, 21st, 22nd and 23rd sts on each bed. K 7 rows. Transfer sts for st st. Using MT-1, K 1 row. Using WY, K a few rows and release from machine.

Electronic Chart





BUTTON BAND

Work as for buttonhole band omitting buttonholes.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Pin front bands into position. Unravelling WY as required, back-stitch through open loops of last row worked in MC. Lap buttonhole band over button band and sew lower ends into position. Join left shoulder seam.

COLLAR

With ribber in position and carriage at left, set machine for double rib. Push 128 Ns on each bed to WP for double rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for double rib knitting. Set RC at 000. Using MT-2/MT-2, K 13 rows. Using

MT-3/MT-3, K 13 rows. Using MT-3/MT-3, K 6 rows. Set carriage for partial knitting. Push 8 Ns on main bed at opposite end to carriage to HP on next 8 rows and 6 Ns on foll 2 rows. 52 sts rem. Transfer sts for st st. Using a transfer tool, push 38 Ns at right from HP to WP. With P side facing, pick up 38 sts along left front neck edge (from centre of band) and 52 sts across back neck and place on to Ns in WP. Using MT-1, K 5 rows. Using MT+3, K 1 row. Cast off with a latch tool. Using a transfer tool, push rem 38 Ns at left from HP to WP. With P side facing, pick up 38 sts along right front neck edge (to centre of band) and place on to Ns. Using MT-1, K 5 rows. Using MT+3, K 1 row. Cast off with latch tool.

TO COMPLETE

Join right shoulder seam. Sew seam allowance on collar into position on inside. Join side and sleeve seams. Set in sleeves. Finish buttonholes and sew on buttons to correspond.

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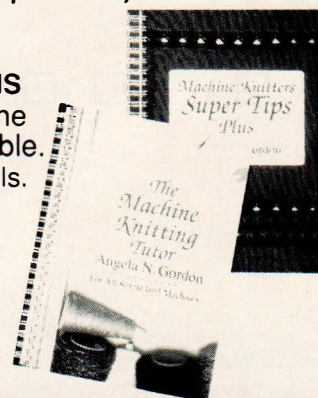
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For use with The Machine Knitting Tutor are available. Send SAE for further details.

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Sandford, Wareham
Dorset. BH20 7AX



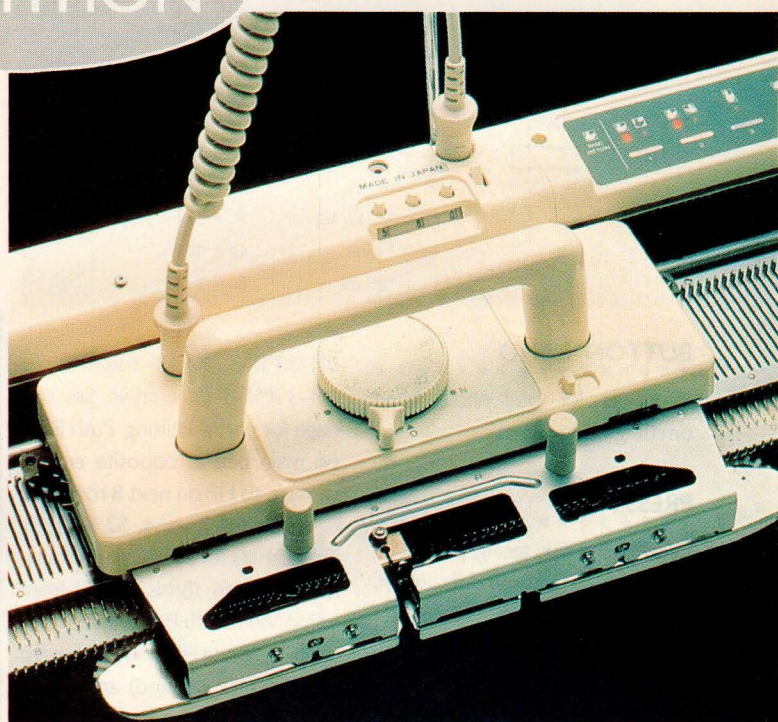
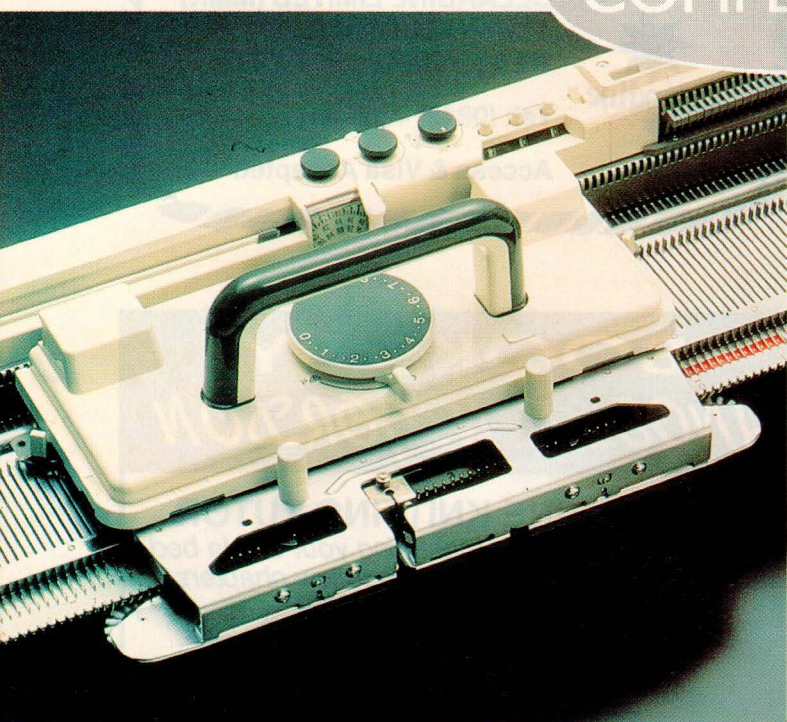
TRADE ENQUIRIES WELCOME

Win a SILVER REED Lace Carriage

LC2 PUNCHCARD ACCESSORY WORTH £145

LC580 ELECTRONIC ACCESSORY WORTH £185

COMPETITION



COMPETITION ENTRY FORM

OCTOBER 1992 MMK

ANSWERS

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐

Name

Address

Postcode

LC2 or LC580 Lace Carriage.....

Model of machine (as listed).....

Please use block capitals to print your answers and all details where indicated. Cut out the form and send it to October Competition MMK, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR by 31 October 1992. Photocopies are not acceptable.

POLISH UP YOUR SILVER

In order to update the dear, old archives, *Modern Machine Knitting* readers are asked to demonstrate their depth of knowledge on matters SILVER.

Silver Knitting Machines Ltd, from their haven in Mitcham have coated the pill beautifully. For your kind attention in providing answers to a few questions, they promise to award **TWO** lucky winners a prize of one of the Silver Reed Lace Carriages.

We've started a new series on lace knitting in *Modern Machine Knitting* but many of you have not had the chance to try this technique, so here is the opportunity to **WIN**

one of these super accessories for your punchcard or electronic machine.

The **Electronic Lace Carriage LC580** is suitable for use with the standard gauge 580 model and the new SK840. It can knit plain lace transfers in a single action — just as quick as knitting stocking stitch. There is also the facility for working more intricate multi-transfer fashion lace patterns. The carriage comes with five pre-printed lace pattern cards.

For Silver Reed punchcard owners, the **LC2 Lace Carriage** is a worthwhile accessory which operates in a similar way to the LC580 to produce both plain and fashion

lace fabrics. The carriage comes with a set of pre-punched lace cards and is suitable for use with the following models: 260, 360, 600, 700, 210, 280 and 740.

One punchcard owner and one electronic owner will be the recipient of either the LC2 or the LC580 Lace carriage described above. Just answer the seven questions posed in the **Questionnaire** and write your answers on the special Competition Entry Form provided, together with your name, address, postcode and model of machine for which the lace carriage is required.

Over to you then and allow a modicum of Silver Polish to put a gleam in your eye!

QUESTIONNAIRE

- Which Silver is featured in Treasure Island
 - Short Sam Silver (?)
 - Skinny Sid Silver (?)
 - Long John Silver (?)
- Which Silver is a cut of prime beef
 - Silvertop (?)
 - Silverbottom (?)
 - Silverside (?)
- Which tree is noted for its Silver bark
 - Silver Oak (?)
 - Silver Ash (?)
 - Silver Birch (?)
- Which is the correct Silvery song title 'By the light of the ...'
 - Silvery candle (?)
 - Silvery torch (?)
 - Silvery moon (?)
- In which year was the Silver Jubilee of Queen Elizabeth II
 - 1975 (?)
 - 1976 (?)
 - 1977 (?)
- Fashioned in Silver what, according to the legend, is the only weapon that could destroy a werewolf
 - Silver sword (?)
 - Silver arrow (?)
 - Silver bullet (?)
- What is the correct address of Silver Knitting Machines Ltd
 - 10 Downing Street (?)
 - Windsor Castle (?)
 - Unit 1, 10 Wandle Way, Willow Lane Trading Estate, Mitcham, Surrey CR4 4TE (?)

RULES

- Only entries on forms cut from the magazine will be accepted. You should print your answers clearly in the grid provided and send your entry form to October Competition, Modern Machine Knitting, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR.
- This competition is open to residents in the UK only, except the employees of Modern Knitting Ltd, the magazine's typesetters, printers, distributors, employees of this month's sponsor and their relatives.
- Your entry must reach us by 31st October 1992 and we accept no responsibility for entries lost or delayed in the post.
- No cash alternative will be offered.
- The winners will be the first two correct entries (one punchcard owner and one electronic owner) drawn from our postbag after the closing date.
- The winners will be notified in writing and the competition result will be published in a future issue of Modern Machine Knitting.
- The Editor's decision is final and no correspondence will be entered into regarding the competition.

Terry Armitstead

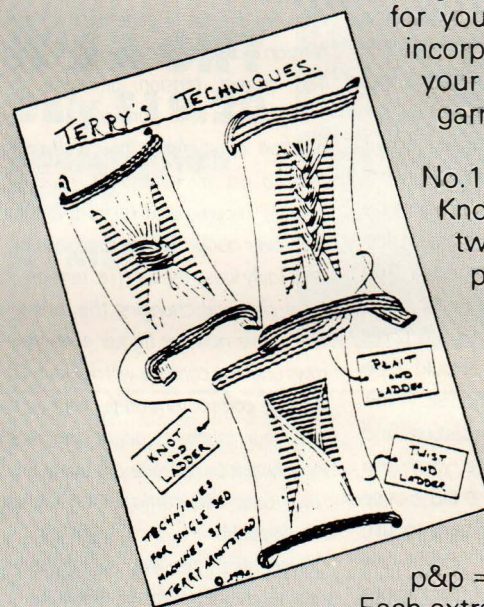
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Silver Reed advice spot

by Kamalini Trentham

We have received many letters asking advice about lace knitting using the lace transfer carriage and this has prompted Kamalini into writing a special series for Modern Machine Knitting readers, starting in this issue. However, in the meantime, the following letter was sent in:

Dear MMK,

Would it be possible to ask advice about suitable tensions to use for the various yarn thicknesses whilst knitting with my lace carriage on the 580? I have encountered a lot of problems with 4 ply yarns and particularly with wool, where I have had to raise the tension dial setting above 5 and two dots. On any tension setting higher than this, the yarn hooks up on the sinker posts, stitches drop and the machine mis-patterns. The higher the tension dial setting, the worse the problem!

I am somewhat confused about the correct tensions for 4 ply wool and feel that tension 5 and two dots, or even tension 6, is a bit too tight. I previously owned a 360 with lace carriage and never came across this problem – no difficulties even on tension 8. Should I be comparing the two models in this way or are the tension settings and those marked on the yarn arm discs quite different? I did notice that the 580 manual says to use yarn arm tension 1 for 4 ply whereas I have always used about 4 on the 360.

Having had everything checked out on my 580 and no faults reported I have since discovered that it might be possible that the 'clock plate' (whatever that is) may be incorrectly set, but I have no idea whether this is something I could adjust or whether I would need to send my machine away.

Hoping you can help...

Yours sincerely,

Madge Preston, Kingsdown, Wiltshire

If you are a Silver Reed owner, take this new opportunity to write in with your machine knitting queries. We will pass your letters on to Kamalini Trentham and publish her answers and advice for the benefit of other Modern Machine Knitting readers. Kamalini will be pleased to hear from anyone who has a specific query on any of the Silver Reed machines, whether it be a standard, chunky, DK or fine gauge; manual, punch-card or electronic model. Your questions might concern a knitting technique, patterning query, use of one of the accessories, or a general problem you are experiencing. Don't forget, it doesn't matter whether you are an experienced knitter or just starting out as a beginner to machine knitting – your query might help others too! Please send your letters to 'Silver Reed Advice Spot', MMK, 3 Bridge Avenue, Maidenhead, Berks SL6 1RR, enclosing a SAE for your reply.

It is very difficult to generalise on the tension dial setting for any ply of yarn. The correct tension depends on many factors. The fibre content, the method of spinning, plying, dyeing and so on, all contribute. I would strongly recommend knitting a test strip over about 30 needles, starting on a fairly loose tension (i.e. tension 8 for 4 ply) and changing the tension one whole number tighter every few rows until the carriage will not knit. To find the correct tension for your yarn and your machine, adjust the dial, loosening it by just one dot every few rows until the carriage is knitting comfortably.

Correct stitch size and auto tension setting on the mast are particularly important when knitting with the lace carriage. Watch the needles as you knit. If loops form on the right, the mast tension is too loose and if needles on the left move out of align-

ment with the rest, the tension on the mast is too tight. When the mast tension is correctly set, the needles will remain neatly in B position with no loops formed at the right edge.

If your machine is dropping stitches, it does not necessarily mean that a looser tension will help. Sometimes the reverse is true. However, you are correct in your point about the needle bed and lace carriage being timed correctly. This would require you to send your lace carriage plus needle bed to be properly adjusted by the engineer, so you would be without your machine for a couple of weeks. However, before you send the machine, you can test the timing yourself using the following procedure:

Remove the NI Cam and take the brush plate off. Set the Point Cams to 75 and bring 150 needles (75 on each side of centre 0) to B position.

Feed in Card number 1 from the standard pack. Lock and memorise row 1 of pattern 3. Set the cam lever on the lace carriage to P. Move the carriage from right to left at crawl speed. You should have every fourth needle selected. You should be able to see the selection right across the bed as the carriage is moved slowly from right to left. Now move the carriage at the normal knitting speed whilst watching the needle selection. If the same needles are selected at both speeds then your machine is timed correctly and you have to look for another solution to your problems! If your carriage is timed correctly but still dropping stitches, it may need lubrication. Although your manual will show you where to do this, here are some additional cleaning and lubrication instructions supplied courtesy of the Silver Reed Service Department:

NEEDLE SELECTION AREA – KNIT & LACE CARRIAGE

PROBLEM: A lack of lubricant on the Needle Selecting Base left and right will cause wear and result in occasional incorrect needle selection.

MEASURES: Clean and apply lubricant (Silver machine oil) to the Needle Selecting Bases at either end of the carriage (see Fig 105). At the same time, clean and lubricate the Needle Butts.

Lubrication will be required **TWICE** per week for normal home use (knitting one garment per day). Heavy use of the machine requires lubrication in these areas every day. If wear on the Needle Selecting Cam is noted, ask your engineer to replace the Cam.

Fig. 105

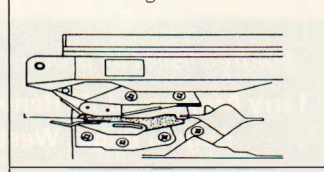
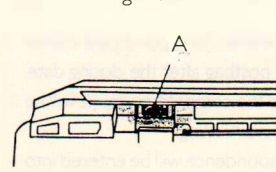


Fig. 106



SLIDER MAGNETS – KNIT & LACE CARRIAGE

PROBLEM: Excessive Lint on the HOK Slider Magnet (A) will disturb the proper movement of the Slider and cause incorrect needle

selection near the forward Point cam on every row (see Fig 106). CHECKING: Move the carriage back and forth constantly and check the movement of the Slider Magnet by its constant clicking sound.

MEASURES: If the clicking sound is irregular, remove any Lint and excessive oil from the magnet. But if the magnet still has poor movement, the magnets must be replaced.

PATTERN CARD/DESIGN CARD

PROBLEM: Dust, marks or grease on the Pattern Card/Design Card will cause incorrect needle selection.

MEASURE: Wipe off the dust from the card and if the card is creased, scratched or marked, replace it with a new one.

Dear MMK,

I have an electronic 580 and recently tried several attempts at Plating. You will see from the two enclosed samples that the Plating

yarn always seems to slip through to the front, just part way across one side of the knitting. I am so disappointed because I think that the Plating technique produces a fabric with a lovely texture and I would welcome advice as to what I am doing wrong!

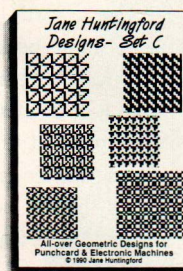
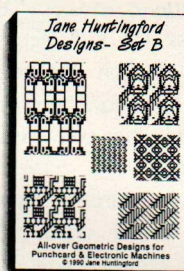
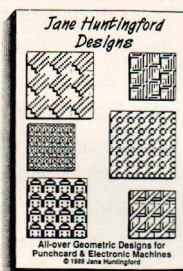
Your sincerely,

Audrey V. Corne, Hertford, Herts

Having examined the samples, it is possible that you are not threading the Plating yarn correctly in the appropriate feeder. The Plating and main yarn should be fed separately through the yarn mast and the mast tensions adjusted to suit the yarn thickness. The Plating yarn should then be threaded through the special hole behind the main feeder before the main feeder is threaded with the main yarn and closed. You will find a bodkin useful for threading the Plating yarn as the small hole is awkward to locate.

When knitting, it is important to keep the speed constant and smooth. As your yarn is not breaking, incorrect threading is the most likely cause of the Plating yarn slipping and changing direction.

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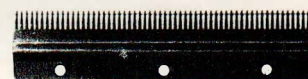
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Geometric gallery

Exclusive 'Indian Summer' Design

by Terry Armitstead & Jane Huntingford

Our regular readers have already found Jane Huntingford's geometric design ideas to be an excellent source of inspiration. This time Jane has worked in conjunction with knitwear designer Terry Armitstead to create an exclusive dress for the last of the warm 'Indian Summer' days or an autumn holiday in the sun.

Jane's association with Terry goes back to college days. Terry was trained in Fashion and Knitwear by designer Mary Dowse and he began his career as a freelance designer, specialising in one-off garments for customers and shops. His designs eventually gained success amongst top names in the

fashion world, including fashion designer John Galliano. Terry's particular interest in knitwear has recently led him to produce a popular series of Intarsia designs and a collection of ideas for single bed techniques (see 'Sports Series' and 'Terry's Techniques' in this month's Knitline).

Terry had realised for some time that Jane's architectural design ideas and doodles offered great potential to the machine knitter and, through his encouragement, her creative patterns have become a great success. The two friends frequently work on projects together and have now become familiar faces at knitting events and club gatherings.

For this 'special' feature, we have changed the format slightly to

allow Terry to inspire you with his design ideas and details of the knitted dress.

'INDIAN SUMMER'

To complement Jane's geometric designs for this month, I have designed a garment on the theme of an Indian Summer. The theme is as ambiguous as the garment. Is it a summer in India, of hot spicy colours, exotic fabrics and patterns, shot here and there with gold thread – or is it a British 'Indian Summer' with those long unexpected periods of warm sunny weather that keep Autumn at bay for just a little longer?

At first glance it's a nice cotton top with a border pattern on the sleeves, belted over an all-over patterned skirt featuring a border to match the top, or is it a dropped-waist dress, belted to look like separates? As with the theme, it is all up to your interpretation. The pattern is written as a dress with a plain top and patterned skirt but, if you prefer, you could add a waistband to the skirt and knit the top as directed to create separates. Another idea is to knit the skirt plain, but include the patterned

KNITTING INSTRUCTIONS

SIZES

To fit 81-86 (91-96) cm, 32-34 (36-38) inch bust.

YARN

The dress knitted in the first size used the following yarns and approximate amounts:

Brockwell Yarns Mercerised Cotton 3 ply. Col MC (625 Olive) – 400 gms. Col A (635 Paprika) – 250 gms.

Texere Yarns Gold Chainette: Col B – approximately 50 gms.

TENSION

Stockinet – 35 sts and 42 rows to 10 cms.

Fair Isle Pattern – 36 sts and 36 rows to 10 cms.

TD at approximately 5.

It is simple to knit in Brockwell's 3 ply Mercerised Cotton and the pattern repeat is suitable for both 12 and 24 stitch punchcard machines as well as electronics.

The style can be dressed up or down to suit a variety of occasions from day to evening wear, with the option of long sleeves if preferred.



Cabled Raglan Sweater

Cables add interest to any stocking stitch garment. Here they are used to emphasise the neck and shoulder area and have been continued into the neckline ribbing.

BACK

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 83 (87, 91) Ns at left and right of centre 0 to WP. 166 (174, 182) Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1 x 1 rib. Using MY, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5/MT-5, K 21 rows. Transfer sts for st st *. Set RC at 000. Using MT, K 108 (112, 116) rows. Cont in cable patt, K 36 rows. RC shows 144 (148, 152).

Shape Raglan Armholes

Cast off 8 sts at beg of next 2 rows.
1st SIZE

Dec 1 st at each end of every foll 4th row until 142 sts rem.

ALL SIZES**

Dec 1 st at each end of every foll alt row until 68 (68, 84) sts rem.

3rd SIZE

Dec 1 st at each end of every row until 68 sts rem.

ALL SIZES

RC shows 236 (240, 244).

Neckband

*** Using MY and a length of fine smooth yarn, K 1 row. Using MT-2,

cont in cable patt and K 15 rows. Drop sts 4, 18 and 25 at left and right of centre 0 down to WY and using a latch tool, pick up as for ribbing. Drop alt sts between cables and at each side down to marked row and pick up as for ribbing. Break yarn, leaving approx. 50 cm. Transfer sts to 2 mm knitting needle. Cast off by hand as K or P as set ***.

FRONT

Work as for back to **. Dec 1 st at each end of every foll alt row until 84 (84, 92) sts rem.

Shape Neck

Push 67 (67, 71) Ns at left to HP and cont on rem sts for first side. Dec 1 st at each end of every alt row until 1 (1, 13) sts rem.

3rd SIZE

Dec 1 st at neck edge on every alt row and, AT THE SAME TIME, dec 1 st at raglan edge on every row until 1 st rem.

ALL SIZES

Fasten off. Push 17 (17, 21) Ns at left from HP to UWP. Finish to correspond with first side, reversing shapings.

FOR STANDARD GAUGE MACHINES WITH A RIBBER.

SIZES:

To fit 86 (92, 96) cm, 34 (36, 38) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:

Twilley's Lyscordet.

MY (Spun Gold) – 400 (425, 450) grms.

Pair 2 mm knitting needles.

TENSION:

Stocking Stitch – 30 sts and 40 rows to 10 cm. TD at approx 8 (MT).

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Stocking stitch and cables.

Cable Pattern

Back and Front

Transfer st 4 at left and right of centre 0 on to a length of

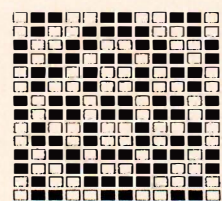
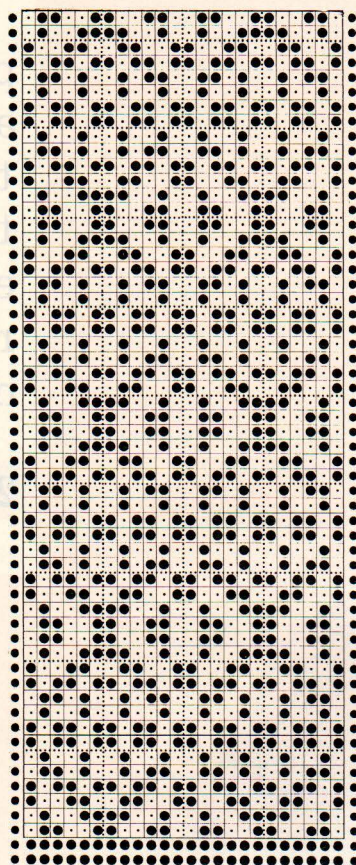
WY and release from machine, leaving empty Ns in WP. K 4 rows. * Drop the 4th st at left and right of centre 0, leaving empty Ns in WP. Make a cable over 6 Ns between dropped sts by crossing 3 sts at right in front of 3 sts at left **. K 8 rows *. Rep from * to * 6 times more, then from * to ** once. K 4 rows. Transfer sts 18 and 25 at left and right of centre 0 on to a length of WY and release from machine, leaving empty Ns in WP. K 4 rows. *** Drop the 4th, 18th and 25th sts at left and right of centre 0, leaving empty Ns in WP. Make 3 cables over 6 Ns between dropped sts by crossing 3 sts at right in front of 3 sts at left, K 8 rows ***. Rep from *** to *** throughout.

Right Sleeve

Transfer st 7 at left and st 1 at right of centre 0 on to a length of WY and release from machine, leaving empty Ns in WP. K 4 rows. * Drop the 7th st at left and 1st st at right of centre 0, leaving empty Ns in WP. Make a cable over 6 Ns between dropped sts by crossing 3 sts at right in front of 3 sts at left. K 8 rows *. Rep from * to * throughout.

If you have any problems locating Twilley's Lyscordet, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.
Twilley's of Stamford Ltd, Roman Mill, Stamford, Lincolnshire PE9 1BG

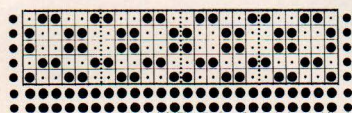




Electronic All-over Repeat



Electronic Border Repeat



Punchcard Border Pattern

Punchcard All-over Pattern

border to complement the top either for the dress or separates. The choice is yours, but if you do knit the dress, I hope you will also get pleasure in fooling everyone when they say 'Oh, I like your top and skirt', because you will be able to reply 'Well actually, it's a dress!!' Or will you keep them guessing?

FRONT AND BACK BODICE (ALIKE)

With carr at right cast on in WY over 160 (168) Ns and knit 10 rows, ending with carr on right. Remove WY from feeder and replace with nylon cord. Knit 1 row with the nylon cord, remove cord from feeder and thread up MC. Using MC and MT for stockinet knit 8 rows. Pick up first row of MC and place on to Ns to form a hem. Knit 1 row.

RC 000. Carr on right. Knit 111 (119) rows in MC. Adjust bodice length here if required. Carr on left. * Cancel row counter. Put all Ns except the first 18 (20) Ns nearest the carr to HP and set machine for partial knitting. Change to MT+3 and knit 1 row. MT, knit 8 rows. Pick up loose row on to Ns to form a small hem and cast these 18 (20) sts off loosely. Cancel partial knitting. Restart row counter. * Knit 1

row. Carr on right. Rep from * to *.

Continue knitting on rem 124 (128) sts for a further 45 (53) rows. RC 158 (174). MT+3, knit 1 row. MT, knit 8 rows. RC 167 (183). Pick up loose row on to Ns to form a small hem. Cast off all rem sts loosely. Pull out nylon cord to remove WY.

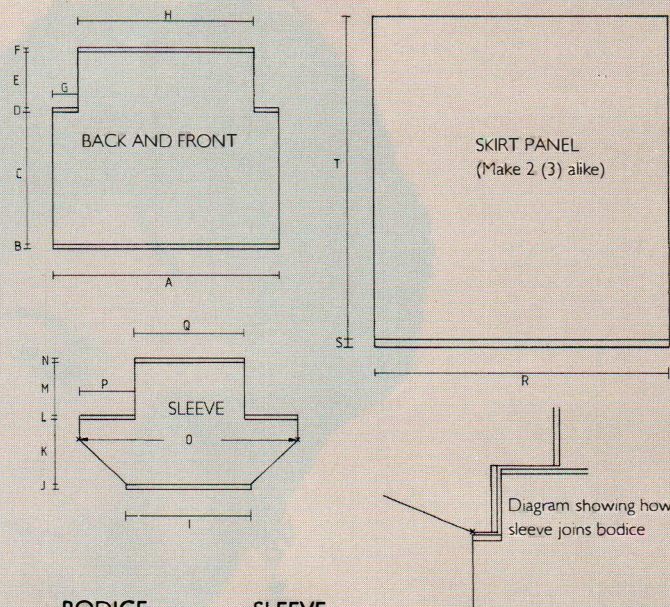
SLEEVES

NOTE: Refer to square brackets for optional long sleeve shaping.

With carr on right cast on in WY over 88 (96) Ns [OR 76 (84) Ns for long sleeve] and knit 10 rows, ending with carr on right. Remove WY from feeder and replace with nylon cord. Knit 1 row with the nylon cord, remove cord from feeder and thread up MC. Using MC and MT for stockinet knit 8 rows. Pick up first row of MC and place on to Ns to form a hem. Knit 1 row.

RC 000. Carr on right. Inc 1 st at both ends of next 32 (34) rows [OR inc 1 st ff at both ends of every 4th row for 152 (160) rows for long sleeve] **AT THE SAME TIME** work border pattern as follows:

Insert Fair Isle border card into



BODICE

A = 46 (48) cm

B = 0.75 cm

C = 26.5 cm

D = 0.75 cm

E = 11 (13) cm

F = 0.75 cm

G = 5 (6) cm

H = 35.5 (36.5) cm

SLEEVE

I = 25 (27) cm OR

22 (24) cm long sleeve

J = 0.75 cm

K = 13 (14) cm OR

41 (44) cm long sleeve

L = 0.75 cm

M = 10.5 cm

N = 0.75 cm

O = 44 (46) cm

P = 11 (13) cm

Q = 22 cm

SKIRT PANEL

R = 5.5 cm

S = 0.75 cm

T = 60 cm

machine and lock on row 5. Change to col A and knit 2 rows. Change to MC and knit 6 rows. ** Release card and set machine to knit border pattern (starting on row 5 of the repeat). Work 18 rows in all, starting with col A in feeder 1 and MC in feeder 2 **, but substituting col B for col A in feeder 1 on rows 12/13, 17/18, 22/23 to complete the border at RC 26. Remove MC from feeder 2 and set machine for stockinet. Thread MC in feeder 1. Knit 6 rows MC then 2 rows col A. RC 34. On completion of pattern, change back to MC and knit straight for a further 19 (23) rows to RC 53 (57) [OR for long sleeve, keep shaping correct to RC 152 (160) then adjust for length if required and place markers at both ends. Continue straight for a further 19 (23) rows to RC 171 (183)]. 152 (164) sts (both long or short sleeve). Carr on left.

* Cancel row counter. Put all Ns except the first 38 (44) Ns nearest the carr to HP. Set machine for partial knitting. MT+3, knit 1 row. MT, knit 8 rows. Pick up loose row on to Ns to form a small hem and cast off these 38 (44) sts loosely. Cancel partial knitting. Restart row counter. * Knit 1 row. Carr on right. Rep from * to *.

Continue knitting on rem 76 (76) sts for a further 43 (47) rows. RC 97 (105). [OR RC 215 (231) for long sleeve]. MT+3, knit 1 row. MT, knit 8 rows. RC 106 (114) [OR RC 224 (240) for long sleeve]. Pick up loose row on to Ns to form a small hem. Cast off all rem sts loosely. Pull out nylon cord to remove WY.

SKIRT

(2 panels first size, 3 panels 2nd size)

With carr on right cast on in WY over 200 (140) Ns and knit 10 rows, ending with carr on right. Remove WY from feeder and thread up MC. Insert card for main all-over pattern and lock on row 1. Using MT, knit 2 rows MC. Change to col A in feeder 1 and MC in feeder 2 and set machine for Fair Isle. Release card.

Carr on right. RC 000. Continue in pattern and knit 28 rows. Remove card from machine, insert card for border pattern and lock on row 5. Remove MC from feeder 2 and set machine for stockinet. Thread col A in feeder 1 and knit 2 rows col A. Change to MC and knit 6 rows. Set machine for Fair Isle and knit the 18 row border as given for sleeve from ** to **, but substituting col B

for col A in feeder 1 on rows 40/41, 45/46, 50/51 to RC 54. Set machine for stockinet.

Remove card for border pattern, insert card for all-over pattern and lock on row 1. Remove col A from feeder 1, replace with MC and knit 6 rows. Change to col A and knit 2 rows. Release card and set machine for Fair Isle. With col A in feeder 1 and MC in feeder 2, knit in pattern, substituting col B for col A in feeder 1 on rows 90/91, 132/133, 174/175. Continue in pattern to RC 216. Adjust length here if required. Lock card and set machine for stockinet. Knit 1 row MC. Change to WY, knit a few rows and release from machine. Knit 1 (2) more panels to match.

SKIRT HEM

With carr on right cast on in WY over 160 (112) Ns and knit 11 rows, ending with carr on left. Remove WY from feeder and replace with nylon cord. Knit 1 row with the nylon cord, remove cord from feeder and thread up MC. Using MC and MT for stockinet knit 12 rows. Pick up first row of MC and place on to Ns to form a hem.

With wrong side facing, pick up sts on WY along lower edge of skirt and gather evenly on to hem Ns so that every 4th and 5th sts are on the same N. Cast off together loosely. Pull out nylon cord and remove WY. Rep for rem skirt panel(s).

TO COMPLETE

Block out pieces to correct measurements and steam gently.

Join skirt panels to bodice:

With right side of front bodice facing and lower edge uppermost, fold back hem towards you and pick up along inside edge of pick up row of hem, placing one st on to each N.

First Size:

With wrong side of one skirt panel facing you (right side of panel faces right side of bodice) and waist edge uppermost, pick up last row in MC and gather evenly to Ns, placing every 4th and 5th sts on to the same N.

Second Size:

With wrong side facing you, pick up one skirt panel on to the centre Ns and 35 sts from the top of each of the remaining two panels on each side, placing every 4th and 5th sts on to the same N (210 sts in all to be gathered on to the bodice front, leaving 105 sts on each of the two panels to be gathered on to the back bodice with a centre back seam). Cast off all sts together loosely. Rep for back bodice and rem skirt panel(s).

Join sleeves to bodice:

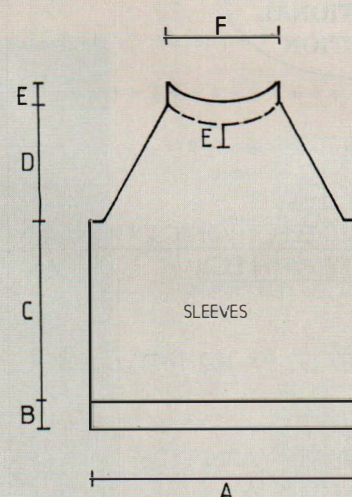
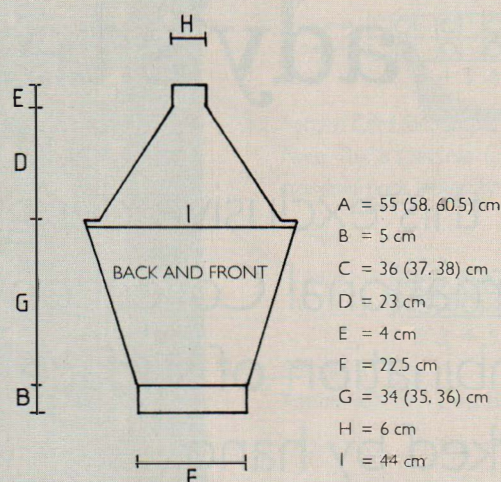
Work in sections, using the same procedure as given for joining the bodice to the skirt panel, as follows:

1. Start by picking up the 18 (20) armhole cast off sts on the bodice with right side facing and the small hem turned back towards you (picking up along the hem join row), placing one st on to each N. Take one sleeve with wrong side facing and pick up the side edge of the straight rows which follow the shaped border seam, starting at the second col A stripe (short sleeve), on to the same Ns. Cast off loosely together.

2. Next, with right side of this same sleeve facing you, turn back the small hem of 38 (44) cast off sts and place hem join row on to Ns. With wrong side of front bodice facing, pick up side edge of straight rows knitted to top neck edge and place on to same Ns. Cast off together loosely.

3. Finally, with right side of front bodice facing and top neck edge hem turned back towards you, pick up 38 (42) sts along the hem join row on to Ns. With wrong side facing, pick up sts along edge of rem straight rows of sleeve to top hem edge. Cast off together loosely.

Rep steps 1, 2 and 3 to join other side of same sleeve to back bodice then join other sleeve to back and front bodice in the same manner. When sleeves are set in, sew up underarm seams on sleeve, side seams on bodice and side seams on skirt panels, matching the pattern carefully as you go along. Finally, neatly join each section of hem piping around the armholes to form a continuous line. Give completed dress a final light steam.



Neckband

Push rem 50 Ns from HP to UWP. Push 12 Ns at left and right from NWP to WP. 74 Ns. Pick up sts along side of neck and place on to empty Ns. Work as for back neckband from *** to ***.

RIGHT SLEEVE

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 34 Ns at left and right of centre 0 to WP. 68 Ns. Work as for back from * to *. Set RC at 000. Using MT, shape sides by inc 1 st at each end of every 4th row until there are 132 sts. K 8 (12, 16) rows. RC shows 136 (140, 144).

Shape Raglan Top

Cast off 8 sts at beg of next 2 rows. Dec 1 st at each end of every alt row until 90 sts rem. RC shows 164 (168, 172). Cont in cable patt. Cont to dec on every alt row from previous dec until 34 sts rem, then on every row until 18 sts rem. RC shows 228 (232, 236).

Neckband

Using MY and a length of fine smooth yarn, K 1 row. Using MT-2, cont in cable patt and K 15 rows. Drop st 7 at left and st 1 at right of centre 0 down to WY and using a latch tool, pick up as for ribbing. Drop alt sts at right down to marked row and pick up as for ribbing. Break yarn, leaving approx 50 cm. Transfer sts to 2 mm knitting needle. Cast off by hand as K or P as set.

LEFT SLEEVE

Work as for right sleeve reversing position of cable panel.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Steam carefully.

MAKING UP

Join raglan, neckband, side and sleeve seams.

Lady's textured pullover

Knit this exclusive design from the 'Silver Reed International Collection' which shows off a clever combination of surface texture and stitches worked by hand.

FEATURING
SILVER REED
INTERNATIONAL
COLLECTION

FOR SK 860 ELECTRONIC DOUBLE KNITTING
MACHINES WITH EC1.

SIZES:

To fit 82-87 (92-97, 102-107) cm, 32-34 (36-38, 40-42) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:

Thick yarn (100% Wool).

MY (Mustard) – 640 (720, 800) grms.

TENSIONS:

Patterns A and B – 20 sts and 38 rows to 10 cm. TD at approx 6 (MT).

Pattern C – 27 sts and 34 rows to 10 cm. TD at approx. MT-2.

Cord Knitting – 6 sts to 4 cm and 25.5 rows to 10 cm. TD at approx MT+3.

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Count Ns in NWP as sts throughout.

Patterns A, B and C – see charts.

Pattern A

Place needle 1 cam at centre 0 and point cams 1 N in from each edge. Press button 1 (right light on), button 2 (left light on) and button 5 (M).

Pattern B

Place cams as for pattern A. Press button 1 (right light on), button 2 (left light on) and button 5 (C).

Having chosen a suitable yarn, either knit your own tension swatch and use your Knit Contour with the block measurements given or follow the written instructions by achieving the same stitch and row tensions.

BACK CORDS 'A' (KNIT 2)

Push 6 Ns at extreme right of needlebed to WP. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT+3 and MY, * K 8 rows. Push 3 Ns at left from NWP to WP. Using a three pronged transfer tool, transfer 3 sts at right on to 3 empty Ns. Push 3 empty Ns at right to NWP. Rep from * 13 times more **. Using WY, K a few rows and release from machine.

FRONT CORDS 'A' (KNIT 2)

Work as for back cords 'A'.

SLEEVE CORDS 'A' (KNIT 2)

Work as for back cords 'A' to **. K 3 (5, 7) rows. Using WY, K a few rows and release from machine.

BACK CORDS 'B' (KNIT 2)

Work as for back cords 'A' but read left for right and right for left.

FRONT CORDS 'B' (KNIT 2)

Work as for back cords 'B'.

SLEEVE CORDS 'B' (KNIT 2)

Work as for back cords 'B' to ** but read left for right and right for left. K 3 (5, 7) rows. Using WY, K a few rows and release from machine.

ALL CORDS

Twist each cord and steam with a steam iron.

BACK

Push 50 (55, 60) Ns at left and right of centre 0 to WP. 100 (110, 120) Ns. Insert card A and lock on first row. Using MT and WY, cast on and K a few rows ending with carriage at left. Transfer the 2nd, 5th, 8th, 25th and 27th sts at left and right of centre 0 on to adjacent Ns. Push empty Ns to NWP. Using MY, K 1 row. Set RC at 000. Cont in tuck st and patt A (pick up sts from cords and reform sts with latch tool as indicated on chart). K 84 rows.

Shape Armholes

Cast off 2 sts at beg of next 2 rows. Dec 1 st at each end of every foll alt row until 88 (96, 104) sts rem, then on every foll 4th row until 84 (92, 100) sts rem *. K 60 (58, 56) rows. RC shows 162.

Shape Shoulders

Cast off 5 (5, 6) sts at beg of next 4 rows and 4 (5, 6) sts at beg of foll 2 rows.

Shape Neck

Note patt row on card. Using a length of MY, cast off centre 24 sts. Using nylon cord, K 16 (19, 20) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge of every row and, AT THE SAME TIME, cast off 4 (5, 6) sts at beg of next row, K 1 row. Cast off 4 (5, 5) sts at beg of next row, K 1 row. Cast off rem 4 (5, 5) sts. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock



card on number previously noted. Release card and cont in patt. Finish to correspond with first side, reversing shapings.

FRONT

Work as for back to *. K 42 (40, 38) rows.

Shape Neck

Note patt row on card. Using a length of MY, cast off centre 14 sts. Using nylon cord, K 35 (39, 43) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Cast off 2 sts at beg of next and foll alt row, K 1 row. Dec 1 st at beg of next and every foll alt row until 28 (32, 36) sts rem, then on every foll 4th row until 26 (30, 34) sts rem.

Shape Shoulder

Cast off 5 (5, 6) sts at beg of next and foll alt row, K 1 row. Cast off 4 (5, 6) sts at beg of next and foll alt row, K 1 row. Cast off 4 (5, 5) sts at beg of next row, K 1 row. Cast off rem 4 (5, 5) sts. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Release card and cont in patt. Finish to correspond with first side, reversing shapings.

SLEEVES

Push 28 Ns at left and 29 Ns at right of centre 0 to WP. 57 Ns. Insert card B and lock on first row. Using MT and WY, cast on and K a few rows ending with carriage at left. Transfer the 1st st at left and 2nd st at right of centre 0 on to adjacent Ns. Push empty Ns to NWP. Using MY, K 1 row. Set RC at 000. Cont in tuck st and patt B (pick up sts from cords and reform sts with latch tool as indicated on chart). K 8 rows. Shape sides by inc 1 st at each end of next and every foll 10th row until there are 85 sts. K 2 rows. RC shows 141.

Shape Top

Cast off 3 sts at beg of next 2 rows. Dec 1 st at each end of every row until 63 (65, 67) sts rem, then on every foll alt row until 55 (53, 51)

sts rem, then on every row until 41 sts rem. Cast off 2 sts at beg of next 2 rows and 3 sts at beg of foll 4 rows. Cast off rem 25 sts.

WELTS

Push 109 (121, 135) Ns to WP. With wrong side facing, pick up sts from lower edge and place on to Ns, inc evenly. Set RC at 000. Using MT-2 and MY, cont in cable patt from chart C. K 33 rows, then K 2 rows in K 1, P 1 rib. * Push the Ns with purled sts to HP. Set cam lever to slip, side levers to ● and Russel levers to II. Using WY, K 1 row. Set cam lever to stockinet. K a few rows and release from machine *.

CUFFS

Push 49 Ns to WP. With wrong side facing, pick up sts from lower edge of sleeve and place on to Ns dec evenly. Set RC at 000. Using MT-2 and MY, cont in cable patt from chart C. K 21 rows, then K 2 rows in K 1, P 1 rib. Work as for welts from * to *.

NECKBAND

Join right shoulder seam. Push 115 Ns to WP. With wrong side facing, pick up sts around neck edge and place on to Ns. Set RC at 000. Using MT-2 and MY, cont in cable patt from chart C. K 9 rows, then K 2 rows in K 1, P 1 rib. Work as for

welts from * to *.

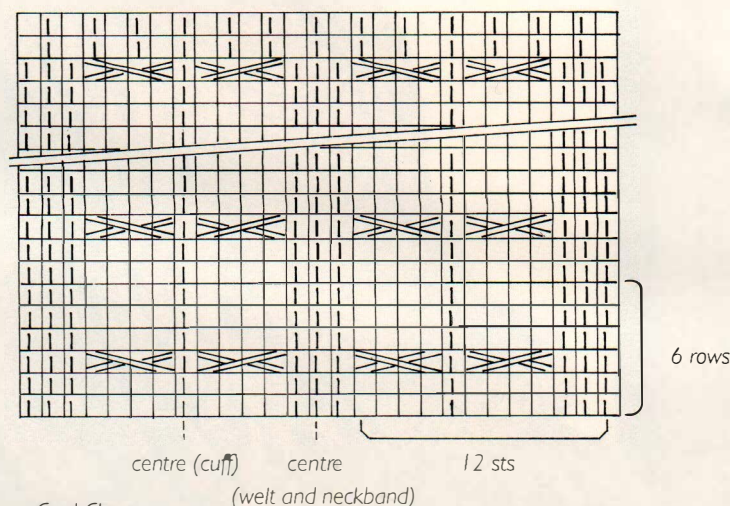
PRESSING

With wrong side facing, pin out all pieces to measurements given. Press with a steam iron.

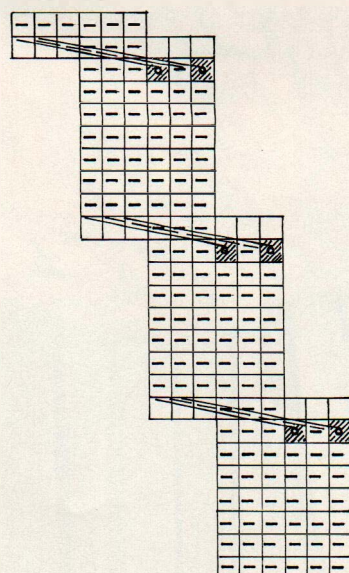
MAKING UP

Close the open sts of welts, cuffs and neckband with a tapestry needle. Join left shoulder, neckband, side and sleeve seams. Set in sleeves. Graft the ends of cords into position. Make bobbles as follows: Insert crochet hook into the tuck st as indicated on the patt arrangement and using MY draw a loop through. Work as shown on diagrams.

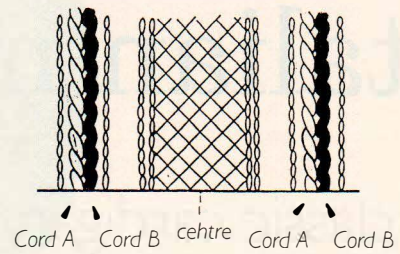
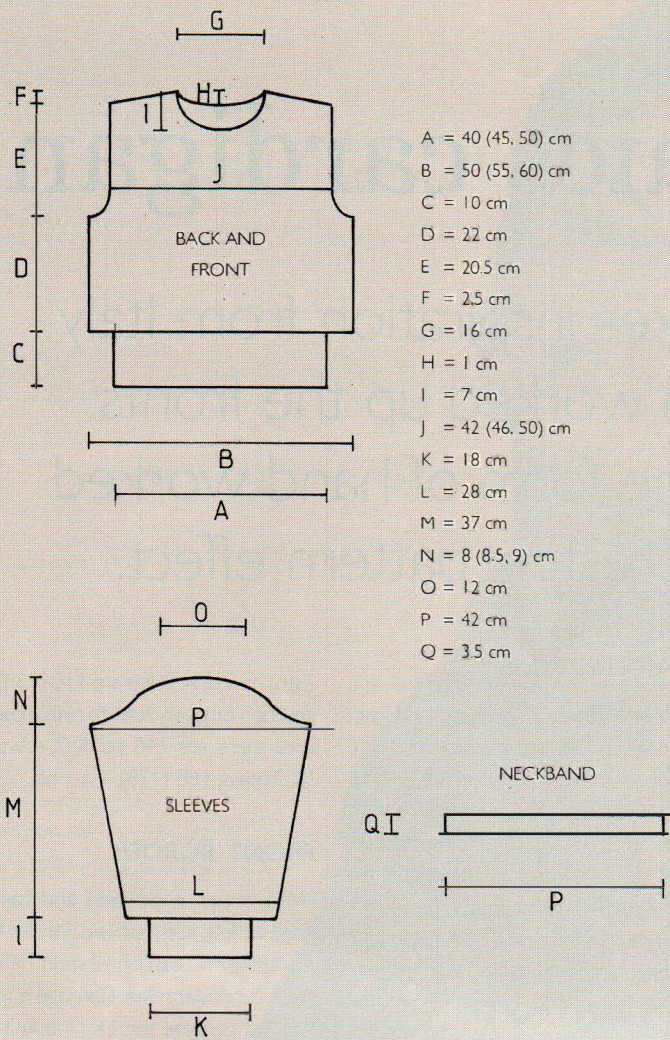
Pattern Chart C



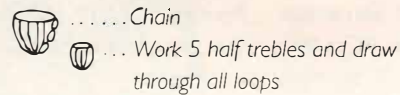
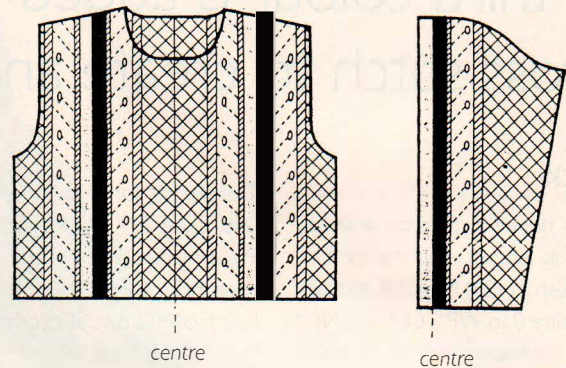
Cord Chart



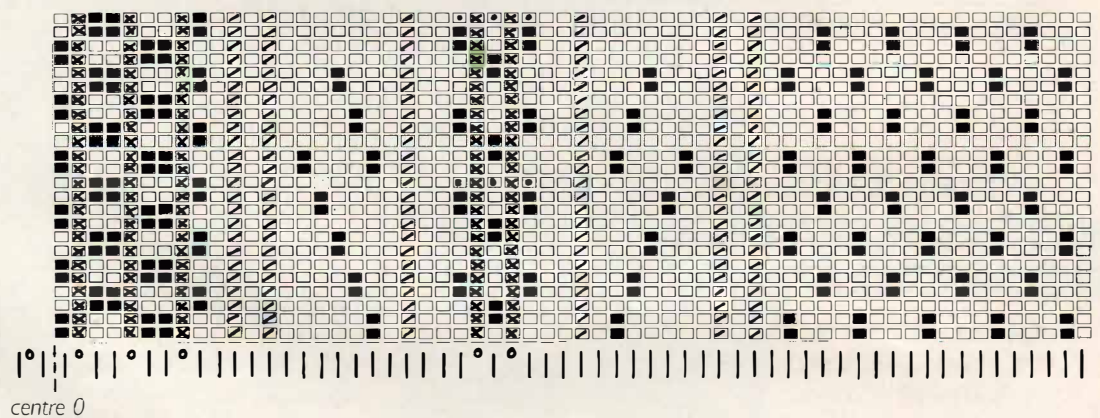
- = Using a latch tool, drop and reform sts
- = Cross 2 sts at right in front of 2 sts at left
- = Cross 2 sts at left in front of 2 sts at right
- = Knit with cord B
- = Knit with cord A
- = Work bobbles with a crochet hook



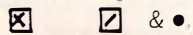
Pattern Arrangement
(right side)



Pattern Chart A

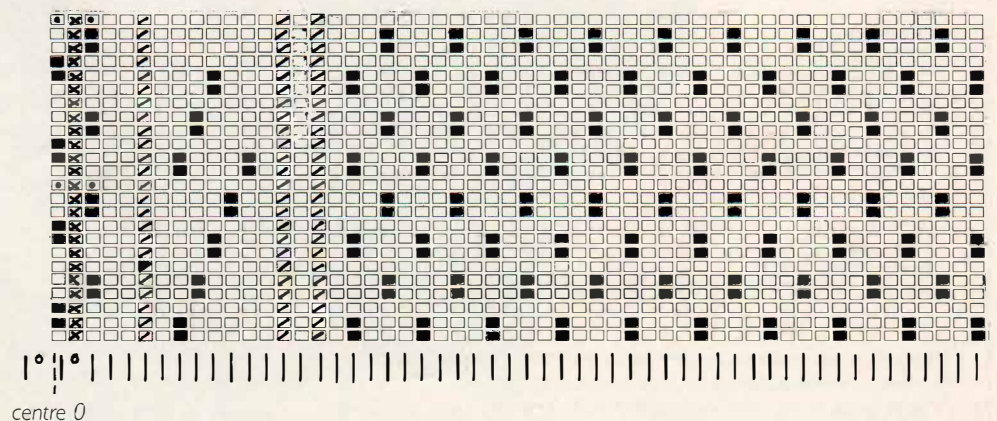


Draw the patterns at right and below on a Design Card omitting marks



- ☒ = Using a latch tool, drop and reform every alt row
- = Hook the sts of the cords A and B marked with ☒ on cord chart.

Pattern Chart B



Italian mosaics cardigan

This classic cardigan style takes inspiration from Italy with two single motif panels worked up the fronts. A third colour is added in the form of hand worked cross stitch to create an interesting pattern effect.

BACK

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 81 (88) Ns at left and right of centre 0 to WP. 162 (176) Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1 x 1 rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5-/MT-5-, K 31 rows.

Transfer sts for st st *. Set RC at 000. Using MT, K 96 (112 rows). Place marker at each end. K 104 rows. RC shows 200 (216). Using a length of MC, cast off centre 50 sts. Push 56 (63) Ns at left to HP. Using WY, K a few rows over rem sts and release from machine. Push Ns from HP to UWP. Using WY, K a few rows and release from machine.

RIGHT FRONT

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 40 (44) Ns at left and 41 (44) Ns at right of centre 0 to WP. 81 (88) Ns. Work as for back from * to *. ** Insert card and lock on first row. Place cams for single motif over centre 24 Ns. Take carriage across twice without knitting. Set RC at 000. Using MT, release card and cont in single motif Fair Isle with MC in feeder 1 and A in feeder 2. K 96 (112) rows. Place marker at right edge. K 32 rows. Place marker at left edge.

Shape Front Edge

Dec 1 st at left edge of next and foll alt row, then on every foll 3rd row until 56 (63) sts rem. RC shows 200 (216). Using WY, K a few rows in st st and release from machine **

LEFT FRONT

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 41 (44) Ns at left and 40 (44) Ns at right of centre 0 to WP. 81 (88) Ns. Work as for back from * to *. Work as for right front from ** to **, reversing shapings by reading left for right and right for left.

SLEEVES

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 36 (39) Ns at left and right of centre 0 to WP. 72 (78) Ns. Work as for back from * to *. Set RC at 000. Using MT, shape sides by inc 1 st at each end of every 4th

(5th) row until there are 110 (134) sts, then on every foll 5th (6th) row until there are 146 sts. K 2 rows. RC shows 168 (178). Cast off.

FRONT BORDER

With ribber in position and carriage at left, set machine for 1 x 1 rib. Using MC, cast on 15 sts in 1 x 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5-/MT-5-, K 8 rows. * Make a buttonhole by transferring centre st on to adjacent N, leaving empty N in WP. K 18 (21) rows. Make a buttonhole over same N as before **. K 19 (20) rows *. Rep from * to * twice more, then from * to ** once. RC shows 137 (152). Place marker at right edge. K 80 rows. Place marker at right edge for shoulder. K 66 rows. Place marker at right edge for shoulder. K 80 rows. Place marker at right edge. K 137 (152) rows. RC shows 500 (530). Transfer sts to back bed. Cast off.

TO JOIN RIGHT SHOULDER

Push 56 (63) Ns to WP. With K side of right back shoulder facing, replace sts on to Ns. With P side of right front shoulder facing, replace sts on to same Ns. Unravel WY. Using MT and MC, K 1 row. Cast off.

TO JOIN LEFT SHOULDER

Work as for right shoulder but read left for right.

FOR STANDARD GAUGE PUNCHCARD OR ELECTRONIC MACHINES WITH A RIBBER.

SIZES:

To fit 87-92 (97-102) cm, 34-36 (38-40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:

Spectrum Vermont 4 ply Perlé.
MC (Cream) – 375 (425) gms.
A (Rust) – 25 (75) grms.
B (Black) – A small amount.
8 buttons.

TENSION:

Stocking Stitch – 28 sts and 40 rows to 10 cm. TD at approx 80 (MT).

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Use a 3 prong transfer tool for shaping. Single Motif Fair Isle – see chart.

If you have any problems locating Spectrum Vermont 4 ply Perlé, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.
Spectrum Yarns, Spa Mill, New Street, Slaithwaite, Huddersfield, West Yorkshire HD7 5BB



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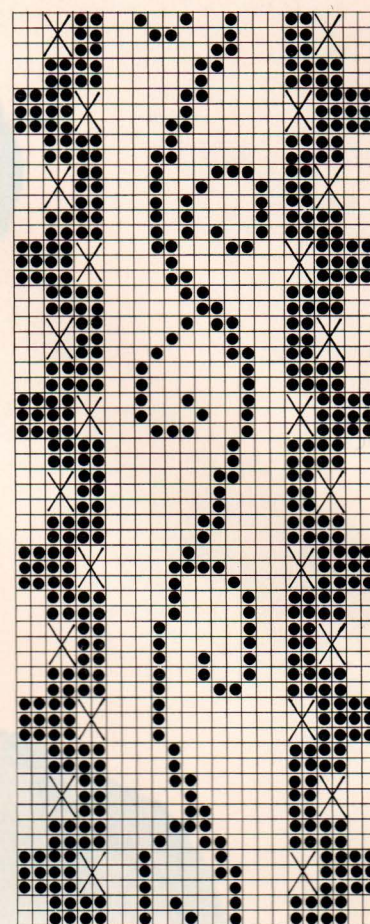
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p
a
t
t
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n

4



= Cross st in B



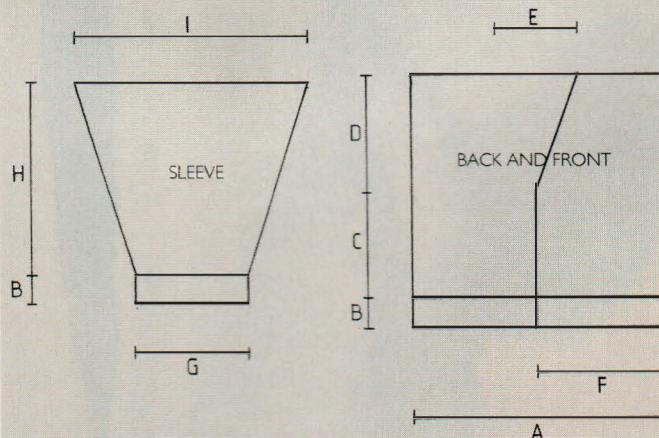
Punchcard Chart

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Set in sleeves between markers. Join side and sleeve seams. Sew front border into position, matching markers to front edge markers and shoulder seams. Sew on buttons. Using B, embroider cross sts as on chart.



A = 57.5 (62.5) cm

B = 6 cm

C = 24 (28) cm

D = 26 cm

E = 18 cm

F = 28.5 (31) cm

G = 25.5 (27.5) cm

H = 42 (44.5) cm

I = 52 cm

T he swatch spot

By *Angie* Knitwear by Design

Use Angie's knitted fabrics and design ideas as a source of inspiration for creating your own individual look. This month she's chosen a 'Hallowe'en' theme which will add a touch of fun and colour to your favourite swatch patterns.

October is the month when the first Christmas cards arrive in the shops, but for me, it is those wonderful colour changes of foliage and the ever shortening hours of daylight which confirm the arrival of Autumn. With the darkening of the evenings comes the mystical and magical air of the past, the fighting of good against evil – witches, spells and Hallowe'en. Children usually enjoy all the fun and festivities of 31st October so, for this issue, I have decided to design some fabrics around the Hallowe'en theme. All three samples work very well in black and white, but why not experiment as I have done – using black, navy or purple for the witches, bats and buildings with different blues, yellows, golds, orange and silver for the background, stars and moons. Don't forget to try out textured yarns too. The Witches Flight makes a good all-over pattern whilst the Hallowe'en design can be used in conjunction with the Bat Border, or you can extract any part of the Fair Isle repeat to make your own version. The designs are perfect for children's knitwear but work well for adults too, so why not knit one up for yourself!

FABRIC INSTRUCTIONS

Yarn Used:

Brockwell Yarns Mercerised Cotton 4 Ply, Bramwell Hobby Yarn,

Forsell Pure New Wool 2 ply and Sylko sewing thread:

SWATCHES 1, 2 & 3

Col 1 – Blue (647)

Col 2 – Black (645)

SWATCH 2

Col 3 – 1 strand Bramwell Hobby (dark grey) with 1 strand Forsell 2 ply pure new wool (light grey).

Col 4 – Col 3 plus 1 strand each of Straw and Bright Yellow sewing thread.

Col 5 – Col 1 plus 1 strand each of Straw and Bright Yellow sewing thread.

SWATCH 3

Col 3 – 2 strands of Straw, 2 strands of Bright Yellow and 1 strand of Orange sewing thread.

Col 4 – 2 strands of Straw and 2 strands of Bright Yellow sewing thread.

Col 5 – 2 strands Bright Yellow, 2 strands Orange and 1 strand of Straw sewing thread.

SWATCH 1 – WITCHES IN FLIGHT ALL OVER PATTERN

(For 24 stitch Punchcard and Electronic Machines)

Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 1 and lock on row 1. Using Col 1, cast on and knit 20 rows stockinet.

Release card and set carriage for Fair Isle.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 120 rows (2 repeats of the pattern).

Remove card and set carriage for stockinet.

With Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Give swatch a light steam on wrong side.

SWATCH 2 –





BAT BORDER

(For 24 stitch Punchcard and Electronic Machines)

Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 2 and lock on row 1. Using Col 1, cast on and knit 36 rows stockinet.

Change to Col 2 in feeder 1 only and knit 4 rows stockinet.

Change to Col 3 in feeder 1 only and knit 2 rows stockinet.

Release card and set carriage for Fair Isle.

With Col 3 in feeder 1 and Col 2 in feeder 2, knit 26 rows.

With Col 4 in feeder 1 and Col 2 in feeder 2, knit 4 rows.

With Col 5 in feeder 1 and Col 2 in feeder 2, knit 10 rows.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 18 rows.

Remove card and set carriage for stockinet.

With Col 1 in feeder 1 only, knit 2 rows.

With Col 2 in feeder 1 only, knit 4 rows.

With Col 1 in feeder 1 only, knit 36 rows.

Cast off. Sew in ends. Give swatch a light steam on wrong side.

SWATCH 3 –

HALLOWE'EN FAIR ISLE

(For 24 stitch Punchcard and Electronic Machines)

Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 3 (refer to special note for punching card from chart) and lock on row 1. Using Col 1, cast on and knit 20 rows stockinet.

Release card and set carriage for Fair Isle.

With Col 1 in feeder 1 and Col 3 in feeder 2, knit 6 rows.

**Lock card. Set carriage for stockinet.

With Col 1 in feeder 1 only, knit 2 rows.**

Repeat from * to *.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 22 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 3 in feeder 2, knit 6 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 10 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 4 in feeder 2, knit 6 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 5 in feeder 2, knit 8 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 4 in feeder 2, knit 6 rows.

Repeat from ** to **.

Repeat from * to *.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 22 rows.

Repeat from ** to **.

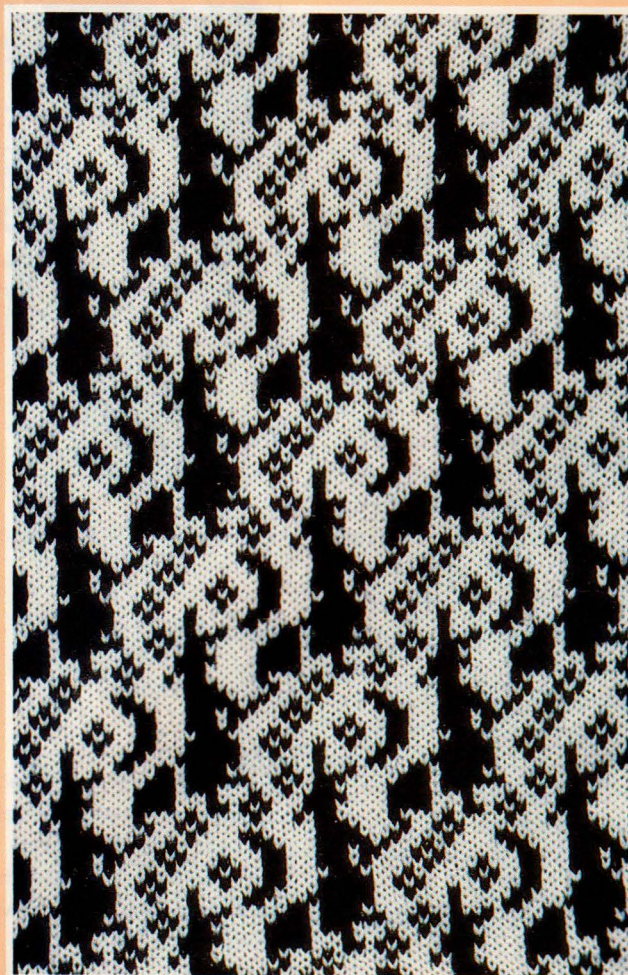
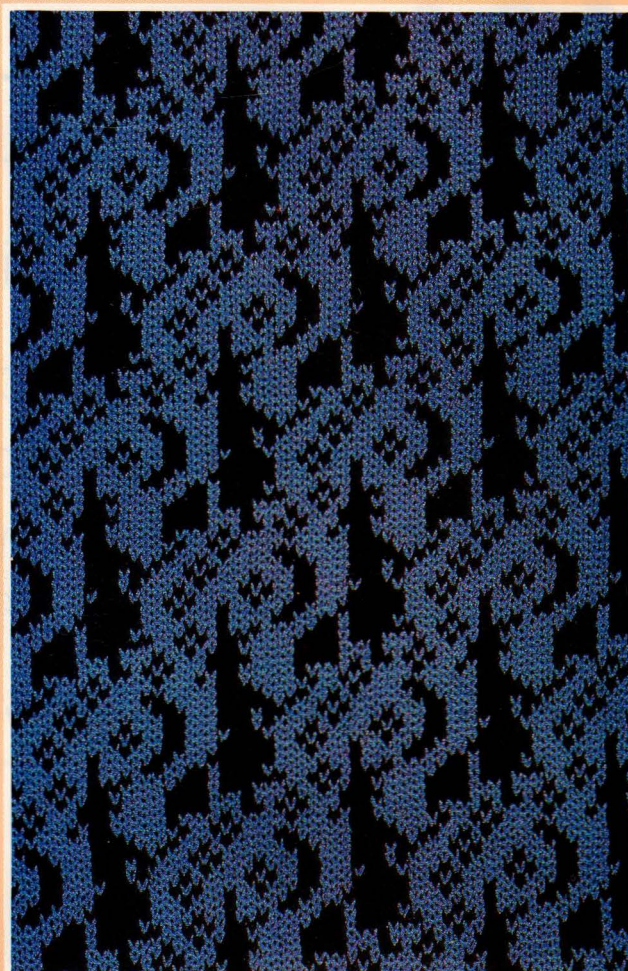
Repeat from * to *.

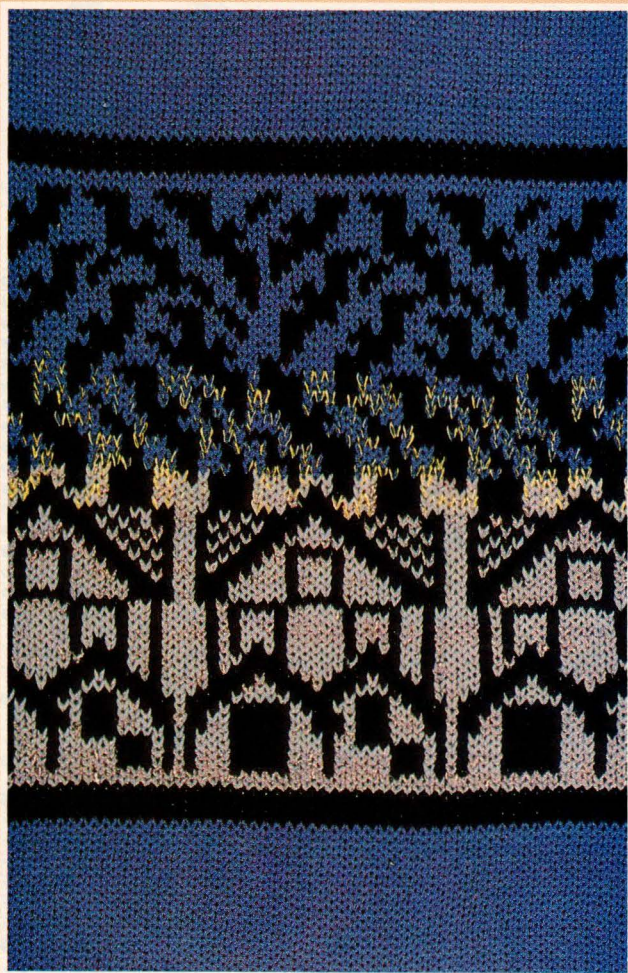
With Col 1 in feeder 1 and Col 3 in feeder 2, knit 6 rows.

Remove card. Set carriage for stockinet.

With Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Give swatch a light steam on wrong side.

Angie is available to give talks to knitting clubs. For more information please telephone her on 0293 523805.





2



3





Card 1
Repeat = 24 sts and 60 rows

Card 2
Repeat = 24 sts and 58 rows

Card 3
First 6 rows of card needed at top of card for Swatch 3 to complete the 108 row repeat.

Repeat 24 sts and 108 rows, including 2 row gaps.

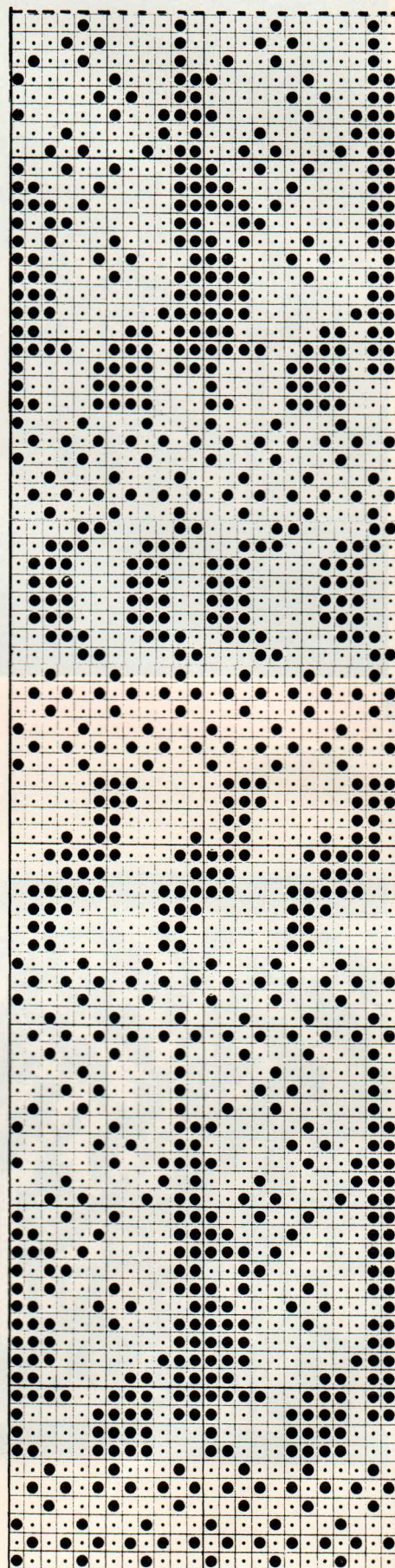
Witch = 12 sts & 22 rows.

Bat = 8 sts & 10 rows

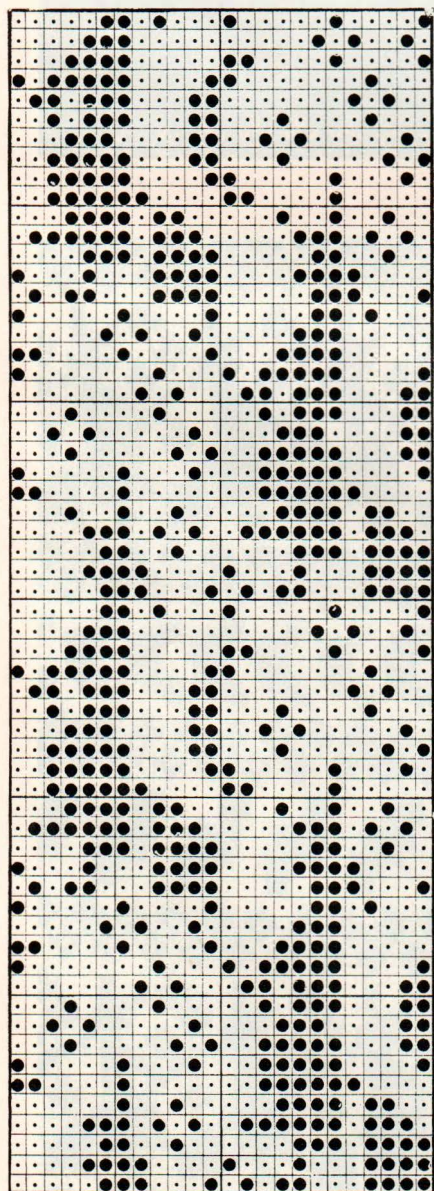
Stars = 4 sts & 6 rows.

Moons = 6 sts & 8 rows.

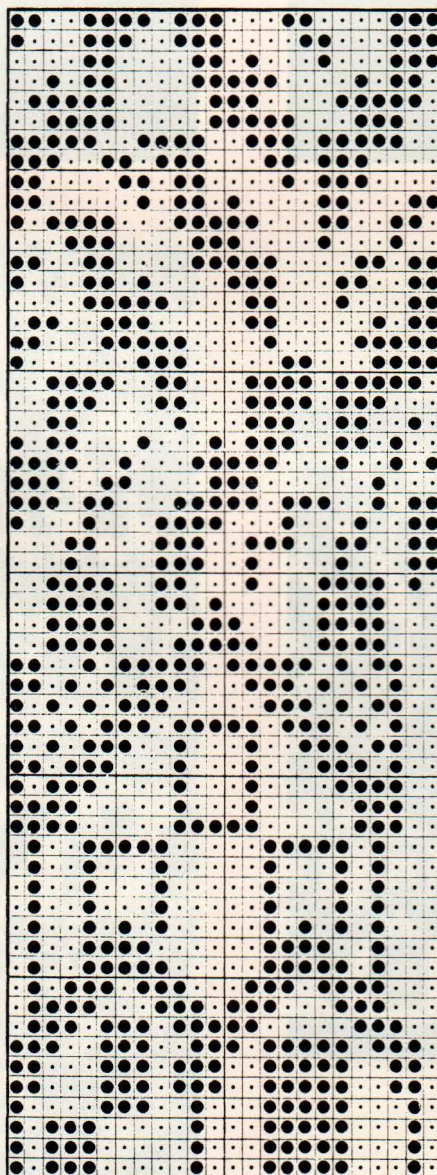
Card 3



Card 1



Card 2



D

agonal stripe sweater

Autumn tones of green and copper combine with this bold diagonal design to create a really striking look. The sweater shape is big and basic to make the most of the bold patterning.

BACK

With ribber in position and carriage at left, set machine for 1x1 rib. Push 83 (91, 99) Ns at left and right of centre 0 to WP. 166 (182, 198) Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1x1 rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1x1 rib knitting. Set RC at 000. Using MT-5/MT-5, K 35 rows. Transfer sts for st st *. Insert card and lock on first row. Take carriage across twice without knitting. Set RC at 000. Using MT, release card and cont in Fair Isle patt. With MC in feeder 1 and C in feeder 2, K 109 rows. Place marker at each end **. K 89 rows. RC shows 198. Mark the 31st st at left and right of centre 0 with WY. Cast off.

FRONT

Work as for back to **. K 71 rows.

Shape Neck

Note patt row on card. Using a length of MC, cast off centre 36 sts. Using nylon cord, K 65 (73, 81) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge of every row until 55 (63, 71) sts rem, then on every foll alt row until 52 (60, 68) sts rem. K 2 rows. Cast off. With carriage at right, unravel nylon cord over rem Ns, bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting.

Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

SLEEVES

With ribber in position and carriage at left, set machine for 1x1 rib. Push 42 Ns at left and right of centre 0 to WP. 84 Ns. Work as for back from * to *. Insert card and lock on 19th row. Take carriage across twice without knitting. Set RC at 000. Using MT, release card and cont in Fair Isle patt. With MC in feeder 1 and C in feeder 2, K 3 rows. Shape sides by inc 1 st at each end of next and every foll 4th row until there are 152 sts, then on every foll 5th row until there are 162 sts. K 2 rows. RC shows 163. Cast off.

NECKBAND

With ribber in position and carriage at left, set machine for 1x1 rib. Using MC, cast on 160 sts in 1x1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1x1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 28 rows. Transfer sts for st st. Using MT-1, K 1 row. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join shoulder seams. Set in sleeves between markers. Join side, sleeve and neckband seam. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MC. Fold in half and catch down on the inside.

35 ►

FOR STANDARD GAUGE PUNCHCARD OR ELECTRONIC MACHINES WITH A RIBBER.

SIZES:

To fit 87-92 (97-102, 107-112) cm, 34-36 (38-40, 42-44) inch bust or chest.

APPROXIMATE YARN TYPES AND AMOUNTS:

King Cole Anti-Tickle 4 ply
MC (Bronze Green) – 1x500 grm cone.
C (Copper) – 1x500 grm cone.

TENSION:

Fair Isle – 31 sts and 34 rows to 10 cm. TD at approx. 8 (MT).

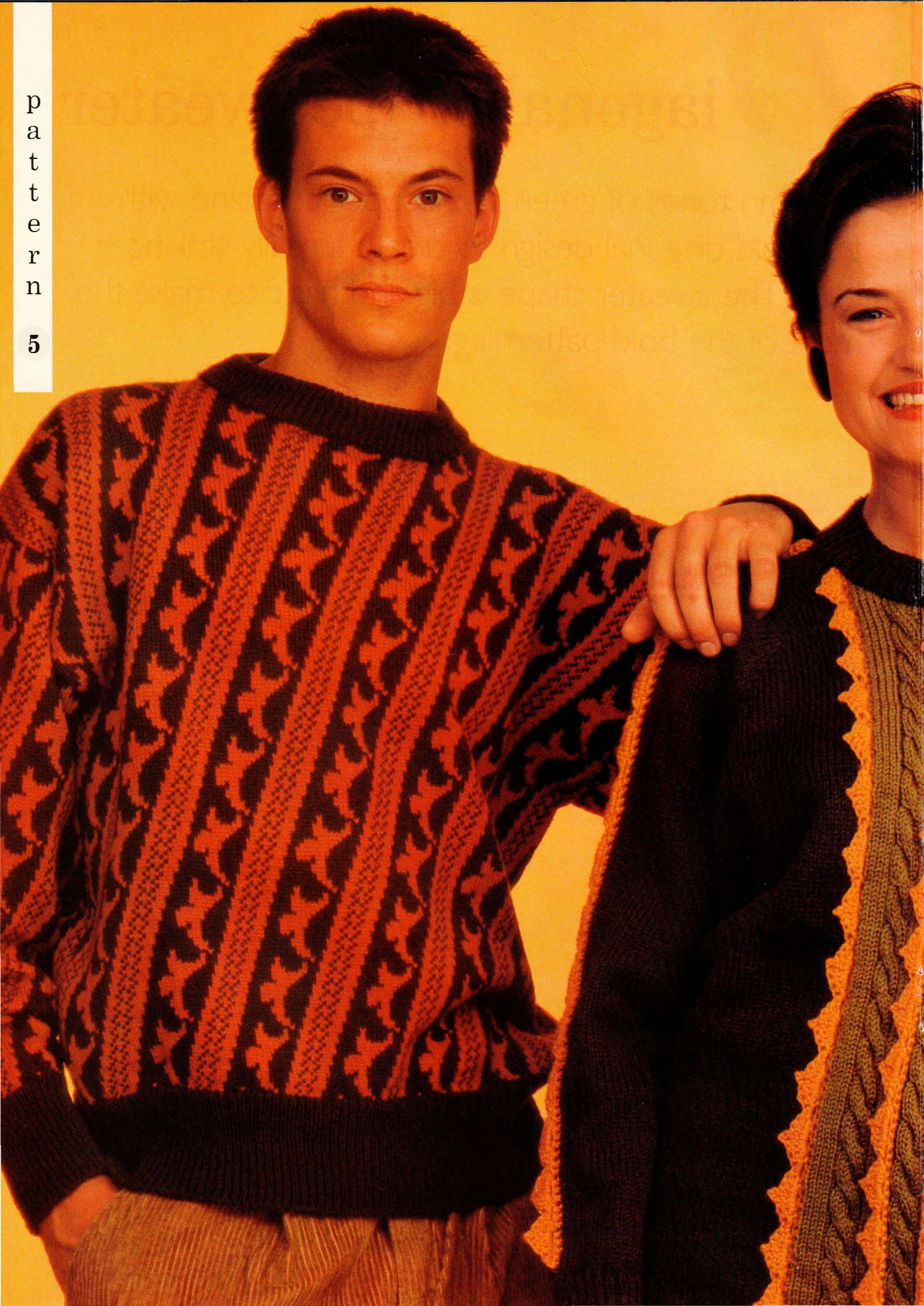
ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Fair Isle – see chart.

If you have any problems locating King Cole Anti-Tickle 4 ply wool, please write to the address below for local stockist and mail order information. Please quote this issue of Modern Machine Knitting.
King Cole Ltd, Merrie Mills, Old Soul's Way, Bingley, West Yorkshire BD16 2AX



Cables and crochet sweater

Here, in autumn colouring, is a panelled sweater that features crochet used to join and trim the panel seams. This is just one way of using the ideas and techniques described in 'A Touch of Crochet' by Betty Barnden this month.

BACK

Push 60 (63, 66) Ns at left and 59 (62, 65) Ns at right of centre 0 to WP. 119 (125, 131) Ns. * Using MT and WY, cast on and K a few rows ending with carriage at right. Push Ns to HP. Using MC, cast on by hand. Push Ns to UWP. Set RC at 000. Using MT-I, K 14 rows. Drop every alt st and pick up as for ribbing *. Inc 1 st at right edge. 120 (126, 132) sts. Set RC at 000. Using MT, K 116 rows. Work measures 47.5 cm, 18¾ in.

Shape Raglan Armholes

Cast off 6 sts at beg of next 2 rows. Dec 1 st at each end of next and every foll alt row until 40 (42, 44) sts rem. K 1 row. Cast off.

CENTRE FRONT PANEL

Push 21 Ns at left and 20 Ns at right of centre 0 to WP. 41 Ns. Work as for back from * to * using A instead of MC. Inc 1 st at right edge. 42 sts. Transfer the 4th, 9th and 16th sts at left and right of centre 0 on to a length of WY, leaving empty Ns in WP. Set RC at 000. Using MT, cont in cable patt. K 168 (170, 172) rows.

Shape Neck

Using a length of A, cast off centre 14 sts. Push 14 Ns at left to HP and cont on rem sts for first side. K 1

row. Cast off 6 sts at beg of next row. Dec 1 st at neck edge on every row until 6 sts rem, then on every foll alt row until 2 sts rem. K 2

rows. Cast off. With carriage at left, push rem Ns from HP to UWP. Finish to correspond with first side, reversing shapings.

34 ►

FOR 6.5 mm DOUBLE KNITTING MACHINES

SIZES:

To fit 87 (92, 97) cm, 34 (36, 38) inch bust.

MATERIALS:

King Cole Anti-Tickle DK.
MC (Bronze Green) – 11 (12, 13) × 50 gm balls.
A (Olive) – 2 × 50 gm balls.
B (Amber) – 1 × 50 gm ball.
3.50 mm crochet hook.

TENSION:

Stocking Stitch – 21½ sts and 27 rows to 10 cm. TD at approx. 3 (MT).

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Cable Pattern – see chart.

If you have any problems locating King Cole Anti-Tickle DK, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.
King Cole Ltd, Merrie Mills, Old Soul's Way, Bingley, West Yorkshire BD16 2AX

RIGHT FRONT PANEL

Push 43 (47, 49) Ns to WP. Work as for back from * to *. Inc 1 (0, 1) st at right edge. 44 (47, 50) sts. Set RC at 000. Using MT, K 116 rows. Work measures 47.5 cm, 18¾ in.

Shape Raglan Armhole

Cast off 6 sts at beg of next row, K 1 row. Dec 1 st at raglan edge of next and every foll alt row until 6 (8, 10) sts rem, K 1 row.

Shape Neck

Dec 1 st at each end of next and every foll alt row until 2 sts rem. K 1 row. Cast off.

LEFT FRONT PANEL

Work as for right front panel reversing shapings by reading left for right and right for left.

SLEEVES

Push 25 (26, 27) Ns at left and 24 (25, 26) Ns at right of centre 0 to WP. 49 (51, 53) Ns. Work as for back from * to *. Inc 1 st at right edge. 50 (52, 54) sts. Set RC at 000. Using MT, shape sides by inc 1 st at each end of next and every foll 4th row until there are 102 (106, 110) sts. K 1 row. RC shows 102 (106, 110) and work measures 42.5 (44, 45.5) cm, 16¾ (17¼, 18) in.

Shape Raglan Top

Cast off 6 sts at beg of next 2 rows. Dec 1 st at each end of next and every foll alt row until 30 sts rem, then on every row until 12 sts rem. Cast off.

NECKBAND

Push 105 (109, 113) Ns to WP. Work as for back from * to *. Using WY, K a few rows and release from machine.

TO JOIN CENTRE PANEL TO RIGHT FRONT PANEL

With right side of centre front panel facing and using 3.50 mm crochet hook, join in B at top edge of left side (right side when worn). Work 1 row dc down this edge, working 1 whole st in from edge and making 1 st every 2 rows. Break yarn. In the same way, but beg at lower edge, work 1 row dc up long edge of right front panel. Turn. Do not break yarn.

Joining Row

Hold the two edges to be joined with wrong sides tog, make 1 ch, then * dc through 1 dc from each edge, 2 ch, miss 2 dc on each edge *. Rep from * to * ending dc through 1 dc from each edge. Turn.

Picot Row

(Beg at lower edge; points will lie to the side.) * Ss in next chain space, (3 tr, 3 ch, ss into 3rd ch from hook, 3 tr) all into next ch space *. Rep from * to * ending ss into last ch space. Fasten off.

TO JOIN CENTRE FRONT PANEL TO LEFT FRONT PANEL

First work the row of dc up right side edge (left side when worn) of centre front panel as before. Break yarn. Then dc row down left front panel as before. Turn. Do not break yarn. Joining row and picot row may then be worked without breaking off yarn, the picot row will be worked from top to bottom and the points will then lie to the side.

FRONT PANEL TRIMS

With right side of front panel facing, using 3.50 mm crochet hook and B, beg at first patt row above rib and work 1 row dc into right-hand loop of first K st to left of centre cable, making 1 st every 2 rows, up to neck edge. Turn.

2nd Row: 1 ch, * dc into next dc, 2 ch, miss 2 dc *. Rep from * to * ending dc into last dc. Turn.

Picot Row: As above.

Make a second front panel trim in the same way, beg at neck edge on left-hand loop of first K st to right of centre cable.

SLEEVE TRIMS

Work as first front panel trim on left-hand loop at right of sleeve centre beg at first st st row above rib on right sleeve. Work as second front panel trim on right-hand loop at left of sleeve centre beg at neck edge on left sleeve.

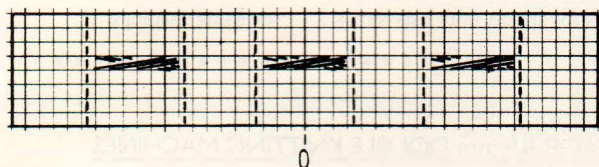
PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on ball bands, avoiding ribbing, do not overpress crochet trims.

MAKING UP

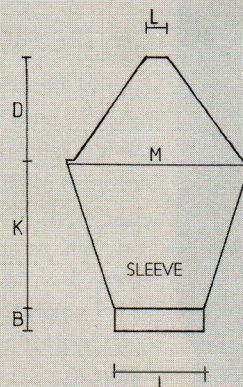
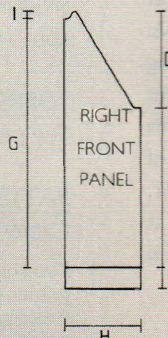
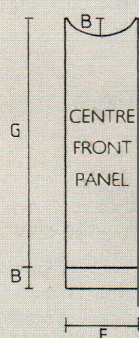
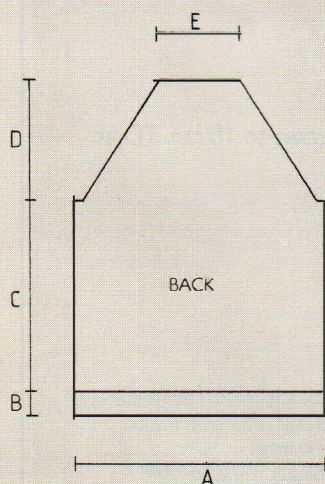
Join raglan, side and sleeve seams. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MC and join back seam.

Cable Chart

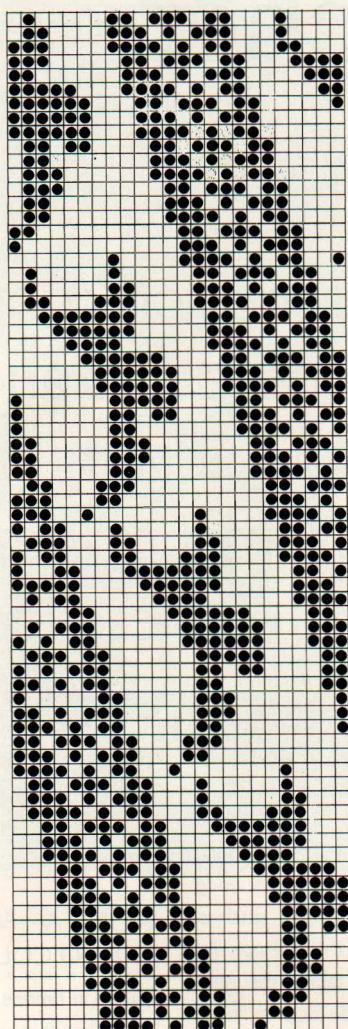


= Cross 3 sts at right behind 3 sts at left.

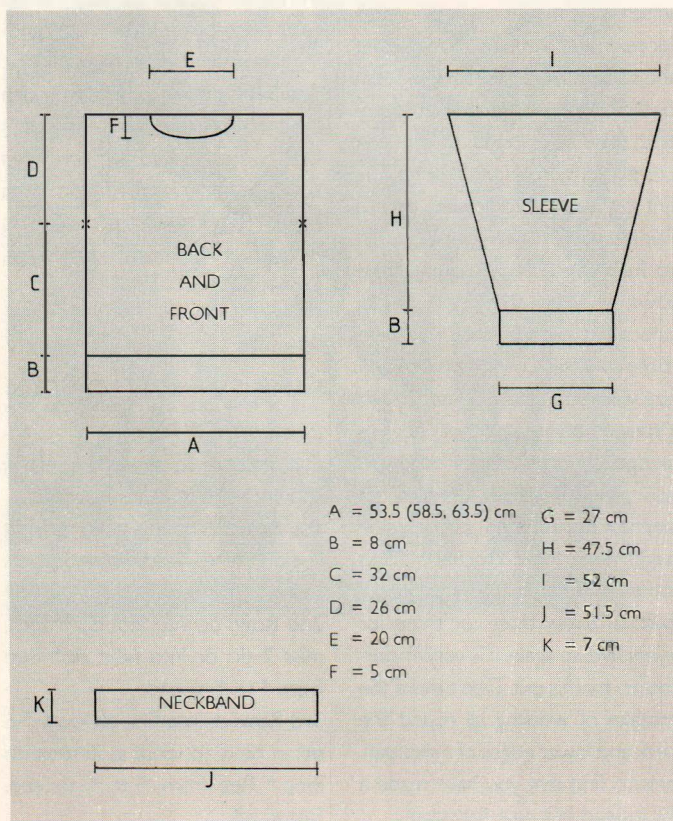
= Drop and reform st before casting off or decreasing. (The st can be dropped from N before crossing cable sts if required but leave empty N in WP).



- A = 55.5 (58.5, 61) cm
- B = 5 cm
- C = 42.5 cm
- D = 26 (27.5, 29) cm
- E = 18.5 (19.5, 20.5) cm
- F = 19.5 cm
- G = 67 (68, 69) cm
- H = 20 (21.5, 23) cm
- I = 1.5 cm (2, 2.5) cm
- J = 23 (24, 25) cm
- K = 37.5 (39, 40.5) cm
- L = 5.5 cm
- M = 47 (49, 51) cm



Punchcard Chart



Why spend hours sewing seams by hand?



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A touch of crochet

Part 4 by Betty Barnden

This is the final part in our special series on combining crochet with knitwear. Here, Betty describes and illustrates some decorative seams and edgings for you to try. You'll also find her 'Cable & Crochet' design, in our patterns section, featuring some of these ideas.

Many different crochet stitch combinations can be utilised to create a variety of edgings and decorative seam joins which are suitable for knitwear. Practice on your tension squares, perhaps joining them together to create a patchwork blanket! You will probably come up with ideas of your own too. For the illustrated samples I have used the same pure wool yarn throughout. For a more delicate effect, try the same stitches in mercerised cotton (for good stitch definition), or a silky yarn. Illustrated on the far left of my design sketch is a long, tunic style sweater with set-in sleeves and side splits; the cuffs and lower edges are finished with a Scallop edge (as Sample E) and the 'bib' area is decorated with lines of the same scallops (with buttons and loops up the central opening) and Simple Frills (as Sample C). The neck is edged with the same Frill. Knit the tunic in soft cotton yarns using subtle pastel shades and decorate with pearl buttons to wear with a soft, floating skirt; or make use of a darker colour for the main garment and trim it with Lurex yarns for a party sweater to team with leggings or pants.

Centre left illustrates an easy waistcoat, with Zig Zag Trims (as Sample D) worked all over. The edges consist of one or two rows of double crochet, with button

loops as Sample E for the fastening. Make it in brilliant coloured wools to cheer up your winter outfits — you could use different colours for each Zig Zag, or make a longer version to wear over trousers.

The crew-neck sweater shown centre right is made in a similar way to the 'Cable & Crochet' design in the patterns section, with two centre panels in tuck stitch (or they could be in a textured yarn) and saddle shoulders. The shoulder seam continues right down the centre of each sleeve. The Fancy Seam in Two Colours (as Sample A) is used throughout to join the panels. Knit this sweater in glowing autumn colours, perhaps using two different greens for the panels and rust and gold for the seams; or in fresh, bright colours such as tangerine, saffron, turquoise and lime, to wear on cold winter days.

The Picot Trim (as Sample F) is used to decorate the jacket illustrated on the far right, dividing the yoke area into squares with double lines of Picot Trim worked 'back to back' for a patchwork effect. Each square could then be embroidered with small or large flowers, or you could use the crochet flowers from Part 1 of this series. The neck, front edges and cuffs are finished with the same stitch used as an edging and button loops worked on the front edge as in Sample E. The Samples described below are all knitted in King Cole Anti-Tickle

DK, using hook size 3.50. Samples B, C, D and F can be worked as edgings. On the side edges of the knitting, work one whole stitch in from the edge. When working these stitches as Trims, work along a straight row or line of stitches, taking one loop of the stitch on the first row, always taking the right hand (or left hand) loop to make the first row a straight line, except Sample C (see instructions).

IT IS MOST IMPORTANT to work the first row at an even tension which is neither too tight nor too loose. In the Samples shown, using the same yarn as the stocking stitch background, one stitch taken every two rows was found to give the correct tension. Worked in a different yarn to the background, or on a Fair Isle pattern, it might be correct to make two stitches every three rows; on a tuck stitch background, one stitch every 3 rows might be more suitable. Changing your hook size will also make a difference.

When working crochet edgings along a cast-on or cast-off edge, you will generally need less crochet stitches than knitted stitches; you might need three crochet stitches for every four knitted stitches, or two for every three, or three for every five; so again, it is very important to try this out. Don't make the mistake of working all round the neck and lower edges of a cardigan, only to find that you have made a frill instead of a nice flat edge!

When working along two edges to be joined together, as in Sample A, there should be the same number of crochet stitches on each side.

SAMPLE A—FANCY SEAM IN TWO COLOURS

(Shown in Bronze Green and Olive)

Using first colour, work 2 rows dc on each edge. Change to second colour. With right sides facing:

1st Joining Row: * ss through 1 dc from each edge, 5 ch, miss 1 dc on each edge.* Rep from * to * ending ss through 1 dc from each edge.

2nd Joining Row: 2 ch, * ss through 1 dc from each edge (i.e. the dc's that were missed on previous row), 5 ch, miss 1 dc on each edge.* Rep from * to * ending ss through 1 dc from each edge. Fasten off.

SAMPLE B—SCALLOP TRIM

(Shown in Wild Rose)

For the trim to lie to the left as shown, begin at lower edge:

1st Row: Working up a straight line of stitches, work 1 row dc, 1 ch, turn.

2nd Row: dc into first dc. * 2 ch, miss 2 dc, dc into next dc.* Rep from * to * to end.

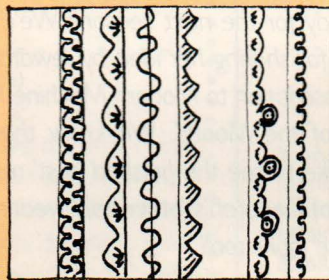
3rd Row: ss into first ch loop, * 6 dtr in next ch loop, ss in next ch loop.* Rep from * to * to end. Fasten off.



ABBREVIATIONS

ch - chain; ss - slip stitch; dc - double crochet; dtr - double treble (htr - half treble; tr - treble; rep - repeat.

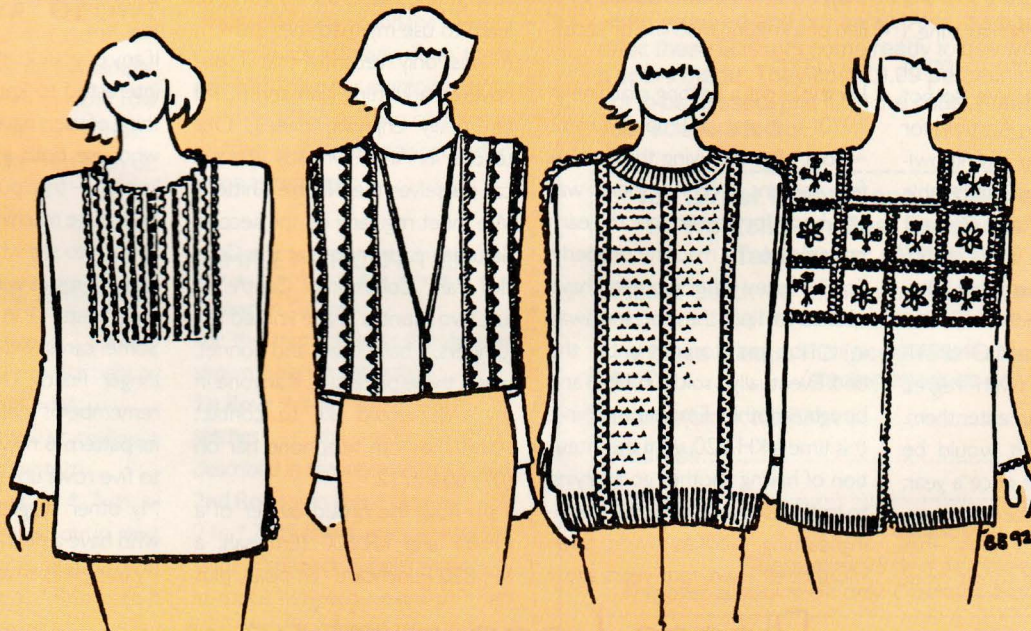
To fasten off: break yarn, 1 ss into next st, pull end through.



A B C D E F

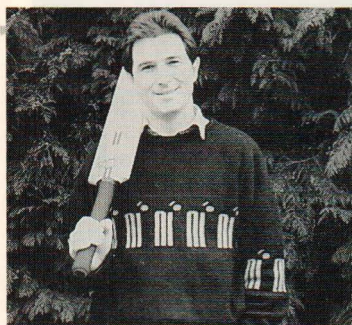
KEY TO SAMPLES

- A = Fancy Seam in Two Colours
- B = Scallop Trim
- C = Simple Frill
- D = Zig Zag Trim
- E = Scallop Edge with Button Loops
- F = Picot Trim



Letters, hints & tips

Win a subscription to Modern Machine Knitting when we choose your letter of the month.

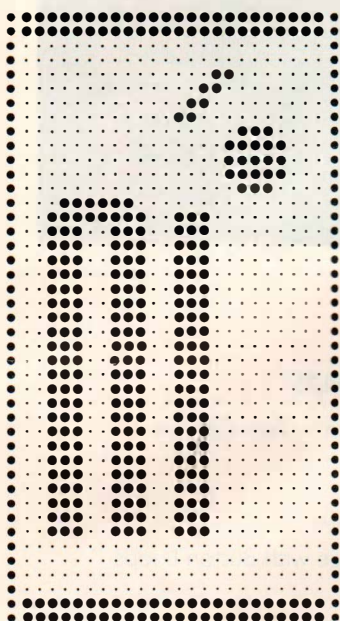


LETTER OF THE MONTH

The cricket season is about to begin and I thought that some of your readers may wish to try this punchcard. I discovered that once I had knitted one jumper for my 'other half', the rest of the cricket team wanted one too (even though the sleeves were 'too long' and the neck 'too wide'!!)

Deborah Blowers, Walton on Thames, Surrey

Unfortunately, because we work so far in advance of publication, Deborah's letter did not reach us in time for one of the summer issues of MMK. However, we know that even if it is the end of the season and not the start, other cricket supporters and enthusiasts might well be interested in Deborah's design. At least there will now be plenty of time to knit the whole team a set of sweaters ready for the next season!! We'd like to thank Deborah for sharing her idea by rewarding her with a FREE subscription to Modern Machine Knitting for her 'Letter of the Month'. We know that other readers would like to see the finished 'test' results so here is a photo of Deborah's 'other half' wearing it — and jolly dishy he looks too!!



a KH 260 and KR 260 Brother Chunky Knitter.

You never know, one day when I come home for a visit to my relatives (I come from Poole, Dorset), I might just come along and say G'DAY!

Hilda Cooper, Birrong, NSW, Australia

We'd love to meet you Hilda — it's always nice to hear from our overseas readers. We do realise some of the difficulties that machine knitters in your country must experience from time to time and tuition is one of these areas. However, we're thrilled to hear that you have discovered a knitting club and, from what you tell us, it seems that this is just what you needed! We hope you continue to enjoy your meetings and that you find the ideas of your teacher and the other members of help.

Regarding your suggestion for a competition for overseas readers, we will certainly give the idea some thought and wonder if others in your situation feel the same way? We would welcome your comments.

OVERSEAS COMPETITION

Thank you for a lovely magazine. I can't wait each month to get it from my Newsagent. We do not have any magazines in Australia for machine knitters (to my knowledge) and it is wonderful to be able to read those from the UK (I get three different ones each month and it costs me an arm and a leg, but I really don't mind!)

I love working out the COMPETITIONS but realise, with regret, that I am not eligible to enter them. I was wondering if it would be possible, perhaps just once a year, to run a competition for your overseas readers only. I think that would be very fair, don't you?

Maybe you could offer a voucher in lieu of a knitting machine or accessory prize.

I first bought a knitting machine in 1970 — it was an Empisal KH 91 — but after receiving the first six free lessons I found there was nowhere for me to go to learn how to use my machine properly. So, like many other women I have spoken to, I put the machine away in its box and stored it under the bed! Eventually, I sold it in 1976 and bought another Empisal machine, this time a KH 820, with the intention of having another go at trying to knit! I discovered that the teaching/learning facilities were even more dire!! Then, four years ago, I

retired and made up my mind to learn to use my machine!

It was only recently that I discovered a knitting club and now I am really enjoying myself. Our teacher is Anne Ormsby and we call ourselves the Nimble Knitters. We meet regularly on the second Saturday each month at the Condeall Park Community Centre. In just two months I have knitted ten jumpers, a baby dress and bonnet, plus a three piece suit. If anyone in my area would like to contact Anne, they can telephone her on (02) 604 2712.

I am now the proud owner of a KH 91 and KR 600 (Empisal), a KH 820 Punchcard (Empisal), plus

TWO TO TRY

If any of your knitters out there are interested to know a little something of use, I have a tip for owners who use both a chunky and fine knitter — try a punchcard from the fine gauge machine in your chunky. I tried it to see what would happen and the result was great! I had less long floats — in fact, none at all. Some cards will, of course, have longer floats. The main thing to remember is that the chunky starts its pattern 6 rows up, as opposed to five rows up on the fine knitter. My other suggestion is for those who have a plastic ribber cover — try using it as an aid for resting your

Please keep writing

knitting on. Tilt the top part down, but leave it on the bottom rail. I find this a great help to support my knitting when performing certain tasks — for example, when turning knitting on the Garter Bar, especially when the piece of knitting is something like baby socks, which need to be joined at the toe, with two sections on the toe to move about.

I always look forward to receiving my *Modern Machine Knitting* magazine every month and particularly enjoy reading everyone else's tips.

Christine Done, Long Eaton, Notts

PROBLEMS SOLVED

I have just picked up the June issue of *Modern Machine Knitting* and read the letter from Margaret Cor-teen which refers to problems with knotted yarn.

I, too, knit shadow pleated skirts and find that by using a small piece of polystyrene I can prevent the

problems caused by knotted or tangled yarn. I first cut a small piece of polystyrene and make a hole in the centre using my single ended transfer tool. I then use my latch tool to pull the yarn end through this hole then take the yarn and thread it up in the normal way. The piece of polystyrene stops any knots or tangles from travelling through the yarn guides!

I also roll up my skirt length but use my ribber cast on comb — the one with the handle on — and when it gets too heavy I use large bulldog clips (it's wonderful what they can be used for and I always have three or four handy!) and hang the weights on to these. I find this works wonders — especially on lace.

I have a Brother 950i and with twin grandchildren (a boy and a girl — just one year old), I am always at my machine, as you can probably imagine!

Mary Honston, Fareham, Hampshire

◀ 36

SAMPLE C—SIMPLE FRILL

(Shown in Olive)

To make the frill stand away from the background fabric, the first row is worked on the 'bars' between the stitches:

1st Row: Work 1 row dc, making a stitch on every alternate 'bar' between two lines of stitches.

2nd Row: 3 ch, * 4 tr in next dc.* Rep from * to * to end. Fasten off. Try some variations on this sample: for a larger frill, work the 2nd row in dtr instead of tr; for a looser effect, work only 3 tr into each dc.

SAMPLE D—ZIG ZAG TRIM

(Shown in Bronze Green)

For the points to lie to the right as shown, begin at top edge:

1st Row: Work 1 row dc, making a multiple of 5 stitches; turn.

2nd Row: ss in first dc, * 7 ch, ss into 3rd ch from hook, dtr in next dc, tr in next dc, htr in next dc, dc in next dc, ss in next dc.* Rep from * to * to end. Fasten off.

SAMPLE E—SCALLOP EDGE WITH BUTTON LOOPS

(Shown in Bottle)

Work 2 rows dc.

3rd Row: ss in first dc, * miss 1 dc, 4 tr in next dc, miss 1 dc, ss in next dc.* Rep from * to * to required position for button loop; for loop, work number of ch required to fit button quite tightly (5 ch in our example), ss into same dc as last ss, then work in dc anti-clockwise round the ch loop, making twice as many dc as there are ch (10 dc in our example), ss into same dc as last ss. Then continue in scallops as before, making button loops as required.

SAMPLE F—PICOT TRIM

(Shown in Copper)

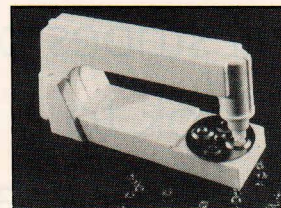
For the trim to lie to the right as shown, begin at top edge:

1st Row: Work 1 row tr, spacing the stitches in the same way as described in the introductory notes.

2nd Row: ss in space between first 2 tr, * 3 ch, ss in same space as last ss, dc in space between next 2 tr, ss in space between next 2 tr.* Rep from * to * to end. Fasten off.

SPECIAL OFFER

for MODERN MACHINE KNITTING readers



THE BEDAZZLER

The Rhinestone and Stud Setter, easy to operate, will set rhinestones and studs of a variety of sizes on to your garments very simply. It works like a stapler and with its selection of interchangeable heads it allows you to set studs and stones of different sizes. It normally costs £12.99 for the basic kit. You can then order various studs and stones at approximately £1 per pack.

As a special Christmas offer to MMK readers, we are offering the Bedazzler for £11.99. This includes not only the basic kit but a selection of large and small rhinestones as well as a pack of 50 assorted studs. The Bedazzler comes with full instructions for use, twelve design patterns and a mail order form for more studs and stones. The total price of this package is normally £16.99, MMK readers will therefore save £5 — this is really too good to miss.



BATTERY SCISSORS

If you have ever experienced problems when cutting fabrics with ordinary scissors, with this new offer of **battery operated scissors** from Turner Promotions, MMK readers should find the cutting gets easier. These scissors have a fast-cutting action and large handles, which lets them glide through fabrics. They come with their own cutting gauge, which means no more guessing of seam allowances, just attach the seam guide for the width required and cut away. Also, as part of the special offer, these scissors come ready to use with batteries and a spare blade. They cost £9.99 per pair inc p&p. An offer not to be missed, just fill in the coupon and send away for your scissors today.

**To: Turner Promotions, 30 Genesta Road,
Westcliff-on-Sea, Essex SS0 8DA.
Telephone: (0702) 354618**

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Please allow 28 days for delivery.

This offer applies to UK only. Overseas enquiries welcome.

Autumn leaves sweater

Autumnal stripes patterned with leaves give a seasonal look to a Fair Isle sweater knitted in Pure New Wool for seasonal warmth.

FOR STANDARD GAUGE PUNCHCARD OR ELECTRONIC MACHINES WITH A RIBBER.

SIZES:

To fit 87-92 (97-102, 107-112) cm, 34-36 (38-40, 42-44) inch bust or chest.

APPROXIMATE YARN TYPES AND AMOUNTS:

King Cole Anti-Tickle 4 ply.
MC (Olive) – 5 x 50 gm balls.
A (Copper) – 4 x 50 gm balls.
B (Bronze/Green) – 4 x 50 gm balls.
C (Amber) – 2 x 50 gm balls.

TENSION:

Fair Isle – 31 sts and 35 rows to 10 cm. TD at approx. 8 (MT).

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Fair Isle – see chart.

C in feeder 1, B in feeder 2, K 1 row.
A in feeder 1, MC in feeder 2, K 8 rows.
C in feeder 1, B in feeder 2, K 6 rows.
A in feeder 1, MC in feeder 2, K 8 rows.
C in feeder 1, B in feeder 2, K 1 row.

If you have any problems locating King Cole Anti-Tickle 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.
King Cole Ltd, Merrie Mills, Old Soul's Way, Bingley, West Yorkshire BD16 2AX

BACK

With ribber in position and carriage at left, set machine for 1 x 1 rib. Push 83 (91, 99) Ns at left and right of centre 0 to WP. 166 (182, 198) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 x 1 rib. Using B, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-5/MT-5, K 33 rows. Transfer sts for st st. Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in Fair Isle patt. Set RC at 000. Using MT, K 104 rows.

Shape Armholes

Cast off 9 (6, 2) sts at beg of next 2 rows. 148 (170, 194) sts *. K 98 rows. Cont in st st and B. Using MT-1, K 1 row. RC shows 205. Place marker between sts 34 and 35 at left and right of centre 0. Cast off.

FRONT

Work as for back to *. K 74 rows. RC shows 180.

Shape Neck

Note patt row on card. Using a length of appropriate colour, cast off centre 34 sts. Using nylon cord, K 47 (68, 80) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. Dec 1 st at neck edge on every row until 40 (51, 63) sts rem. K 7 rows. Cont in st st and B. Using MT-1, K 1 row. Cast off. With carriage at right, unravel nylon cord over rem Ns bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in Fair Isle patt. Using MT, finish to correspond with first side, reversing shapings.

SLEEVES

With ribber in position and carriage at left, set machine for 1 x 1 rib. Using B, cast on 88 sts in 1 x 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. using MT-5/MT-5, K 33 rows. Transfer sts for st st. Using MT, K 1 row. Using WY, K a few rows and release from machine. Push 47 Ns at left and right of centre 0 to WP. 94 Ns. With carriage at left, replace sts on to Ns, increasing evenly. Insert card and lock on first row. Take across twice without knitting. Release card and cont in Fair Isle patt. Set RC at 000. Using MT, shape sides by inc 1 st at each end of every foll alt row until there are 102 sts, then on every foll 3rd row until there are 120 sts, then on every foll 4th row until there are 180 sts. K 3 (7, 11) rows. RC shows 158 (162, 166). Place marker at each end. K 10 (6, 2) rows. Cont in st st and B. Using MT-1, K 1 row. RC shows 169. Cast off.

NECKBAND

With ribber in position and carriage at left, set machine for 1 x 1 rib. Using B, cast on 174 sts in 1 x 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 28 rows. Transfer sts for st st. Using MT-1, K 1 row. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on ball band.



The language of lace

Part I by Kamalini Trentham

The lace transfer carriage is an invaluable accessory which can be used to produce knitwear with the latest fashion look, yet little is understood about the basic principles of the technique. Learn more about lace knitting in Kamalini's new series.

Lace conjures up a vision of delicate, soft flowing fabric with timeless appeal. It also conjures up a sense of intrigue and complexity. It has a connotation with the romantic and is often associated with Victoriana. Lace is essentially an airy fabric with an open texture. There are many different techniques used to produce such a fabric – tatting, macramé, bobbin lace, crochet and knitting are some of the widely used methods of producing fabrics with an open mesh-like structure. Knitted lace used to be the hallmark of hand knitters while machine knitters had to be content with simulating the texture using punch lace, tuck stitch lace or drop stitch lace – the only other alternative being to undertake tedious hand manipulations. With the arrival of punchcard machines and the advent of transfer carriages, machine knitted lace has since become as easy as knitting stocking stitch. However, the thought of designing a lace card, or translating a hand knit lace pattern for the knitting machine is daunting, even for an experienced knitter! True lace is produced by knitting two stitches together (a decrease) and making one (an increase), thereby keeping the number of stitches constant. The new stitch forms an eyelet hole which gives the fabric its open, lacy texture. Decreases and increases do not need to be side by side. Placing

them apart creates the intriguing patterns so characteristic of hand knitted lace. However, in the easiest and simplest of lace patterns, the increase and decrease are placed side by side.

A knitting machine creates true lace in a three step process:

1. In the first step the needles corresponding to the eyelet holes (increased stitch) are selected. The selection may be visual on some makes of knitting machines. These are the needles that correspond to the punched holes on the punchcards and the black squares on the electronic mylar sheets.

2. In the next step the stitch from the selected needle is physically transferred to the adjacent needle, resulting in two stitches on one needle (the decrease) and the empty needle is left in working position.

3. The final step is a stocking stitch row knitted across to knit the decreases off while making a stitch on the empty needles.

Silver Reed machines have a special lace carriage to do all the above three steps. Once the decrease position is decided, steps 1 and 2 can be repeated several times to position the hole.

Sample 2 shows the decrease and increase placed side by side whereas **Sample 1** shows the decrease and increase placed several needles away. During multiple transfers the row counter is automatically turned off and is turned

on again when knitting the stocking stitch rows.

Understanding how this is achieved will enable you to design your own lace patterns or translate hand knitting lace patterns for machine knitting. To encourage you to design your own lace cards, each article will carry a lace design for you to translate into a card. This time, refer to the contents page to find out where we have printed the correct translation for Silver Reed machines. Once you have done the card, knit the pattern to see if you have the same result as the sample – and only then refer to the solution!

KNOW THE LACE CARRIAGE

Punchcard Machines:

The lace carriage has two settings – O(▲) and P(⌘). It also has side levers which have the same function as the main carriage – that of reading the card.

O(▲) Single Transfer Lace (or Plain Lace)

Use this setting where the decrease and the hole are side by side. This is single transfer lace which is very close in principle and technique to hand knitting. The transfer occurs in the direction in which the carriage is moved i.e. if the carriage is moved from right to left, the selected needle will trans-

fer its stitch to the adjacent needle on its left. The side levers must be back to knit lace (and stocking stitch if there are unpunched rows in the card) and forward to knit stocking stitch when no card is in use.

P(⌘) Fashion Lace

Use this setting when multiple transfers are required to place the hole and the decrease apart. Yarn must be removed from the feeder when the lever is moved to P. After the transfers are complete the yarn is replaced in the feeder and the lever is set to O before knitting the row(s). The side levers must be set back to read the card. As in single transfer lace, the stitch is transferred to the left if the carriage is moving to the left and vice versa.

Electronic Machines:

The cam lever on the lace carriage for the electronic machines has four positions

○ The machine knits stocking stitch irrespective of the pattern panel.

▲ The position for single transfer lace (plain lace): this setting works in the same way as on the punchcard lace carriage 'O' position with the side levers back (▲). The side levers on the electronic lace carriage are automatically engaged.

⌘ The position for multi-transfer lace (fashion lace): This is identical to the P setting on the punchcard lace carriage.

N On this setting the carriage does not knit and can be freely moved over needles in working position. This is used to pick up the Point Cams and N1 Cam positions without knitting a row.

CASTING ON WITH THE LACE CARRIAGE

For sample work, cast on using a nylon cord. For a finished edge use either of the following two methods, setting the cam lever to 0 with the required number of needles forward in working position:

1. Cast on with waste yarn using the nylon cord and knit a few rows. Knit one row with the nylon cord. Push all needles forward to C position. Make sure all the latches are open. E-wrap or crochet cast on with the latch tool, keeping the stitches in the latches. Gently push the needles back to B position and knit two rows before starting the lace pattern.

2. Bring needles forward to C position and open all latches. E-wrap or crochet cast on keeping the stitches in the latches as in method 1. Gently push the needles back to B position. Hold these stitches by laying the nylon cord in the sinker gates and knit a few rows. Remove the nylon cord and continue in lace pattern. This method is not suitable if no stocking stitch is required before commencing lace knitting.

TENSION AND WEIGHTS

Correct stitch dial setting and the right amount of weight is necessary for trouble free lace knitting. Knit a tension strip (in lace pattern) to determine the correct tension. Cast on a few stitches, knit a few rows and mark the tension. Tighten the tension setting by one whole number and knit a few more rows. Continue in this manner, tightening and marking the tension until the lace carriage can knit without dropping stitches. Stitches can drop at random if the tension setting is either too tight or too loose. Use as few weights as possible. Too many weights can also create dropped stitches. Certain patterns and certain yarns can actually be

knitted without any weight added. When using weights, distribute them evenly and move them up regularly – say after every 40 rows or so.

KNITTING LACE WITH RIBBER ATTACHED

Lace is best knitted with the main bed in the horizontal position so that the lace fabric can drop vertically. Unless you have a tilt stand to make the main bed lie horizontally while knitting lace, you will need to let the knitted fabric hang in front of the ribber to keep it at the correct right-angle to the needle bed. Cover the ribber bed with a cover to ensure that the fabric stays clean and does not get caught on the ribber sinker gates.

UNDERSTANDING THE LACE CHARTS

The following are standard notations used by hand and machine knitters to illustrate the transfers in lace patterns:

— ... purl stitch

○ ... hole (increase)

/ ... stitch transferred to the right (i.e. 2 sts knitted together on the right of the increase)

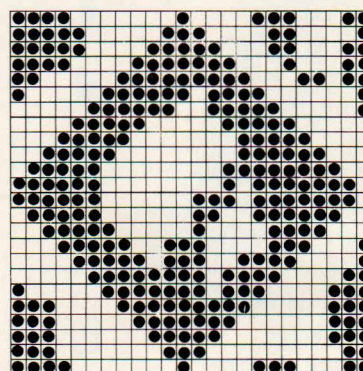
\ ... stitch transferred to the left (i.e. 2 sts knitted together on the left of the increase)

Look at the lace chart and punchcard repeat given for **Sample 2** – this illustrates the format that will be used throughout the series for each sample. Sample 2 is an example of single transfer lace (plain lace) which is as close to hand knitting as the machine can get. For plain lace, all transfers within a row must be in the same direction. It would seem that with these restrictions, the patterns must be limited and dull – not so at all! Samples 3, 4 and 5 illustrate variations on the standard pack card number 1. Study the charts and then relate them to the cards. When knitting the samples, watch each row to see what the carriage is doing. If you are using an electronic machine, please note that the left hand light on Pattern Switch 2 on the pattern panel was ON for all the samples. You might like to try using the right hand light

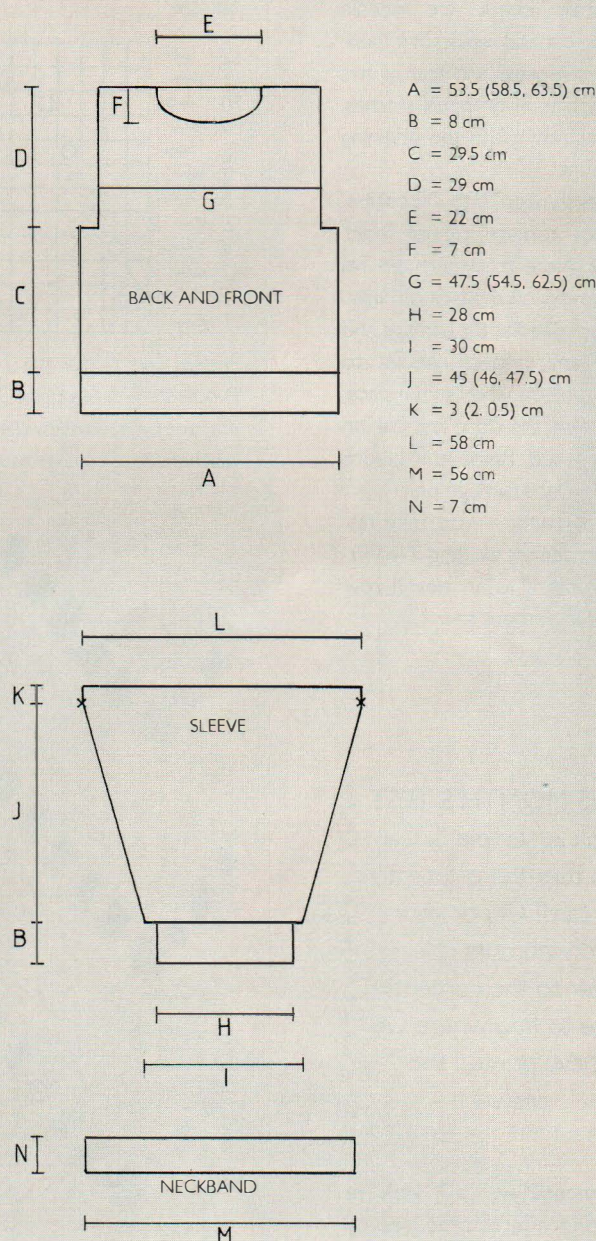
MAKING UP

Join shoulder seams. Set in sleeves, sewing rows above markers to cast off sts at armholes. Join side, sleeve and neckband seams. Pin neck-

band into position. Unravelling WY as required, backstitch through open loops of last row worked in B. Fold in half and catch down on inside.



Punchcard Chart



ON to see how it alters the pattern.

DOs & DON'Ts FOR SUCCESSFUL LACE KNITTING

Do use the edge pins on the punchcard machines to keep the edges even. Electronic owners should set the Point Cam two stitches in each side.

Don't select two adjacent needles i.e. don't punch two holes together or mark two adjacent squares on the mylar sheet. This is very important as it will result in damage to the needles and the carriage.

Do keep the knitting machine clean and the lace carriage well lubricated for trouble free knitting. Periodically check the needle retaining bar and replace it if there is excessive wear and tear as this often results in dropped stitches. Also, regularly clean the retaining bar channel.

Don't push needles to D position. The lace carriage cannot 'hold' needles. Note that there are no Russel levers on the lace carriage.

Do check needles for damage and change any suspect needles to avoid problems when knitting lace.

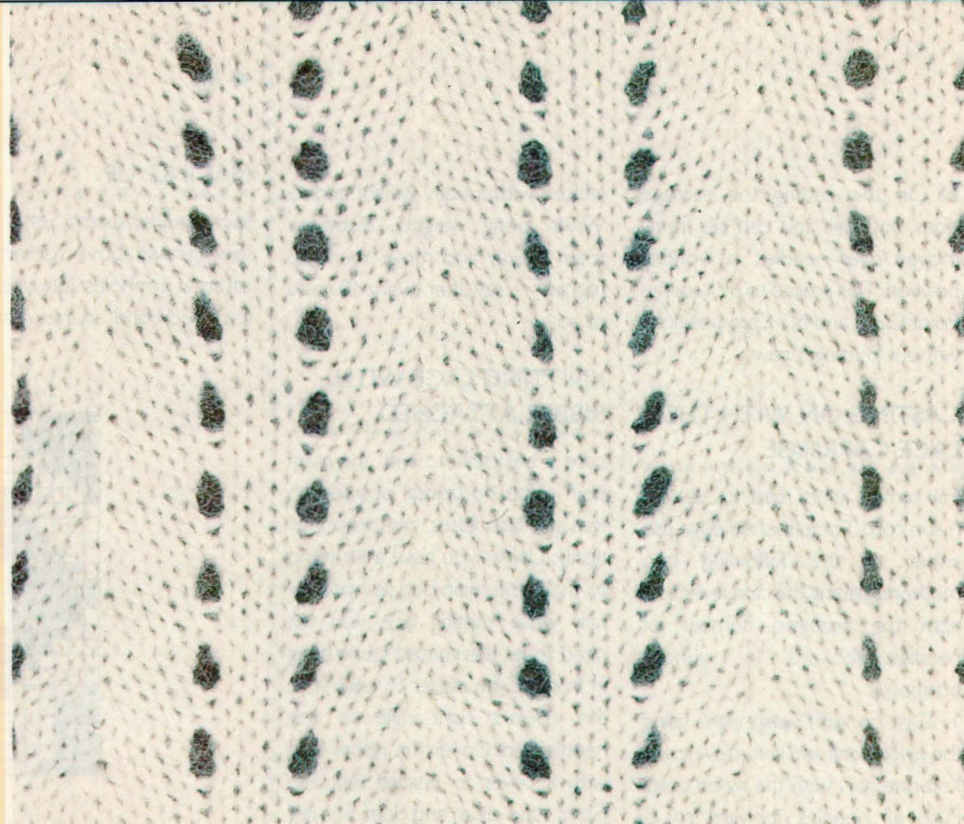
Don't leave the close knit bar on the main bed. Remove it before sliding the lace carriage on.

Do experiment – you may discover something exciting. Try knitting Sample 2 as an eleven row repeat (i.e. without row 12).

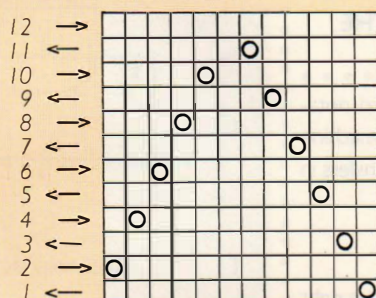
THIS MONTH'S TEST

Look at sample 5. Can you turn the chart into a card? Check your card with ours (please refer to the contents page to find where we have printed the answer)

Next month we will look at interesting effects produced by changing the transfer direction on some simple lace patterns.



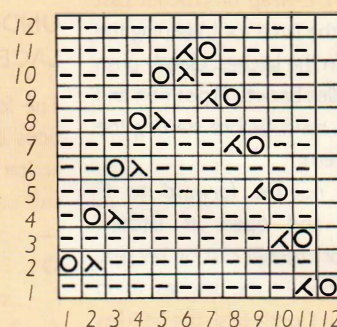
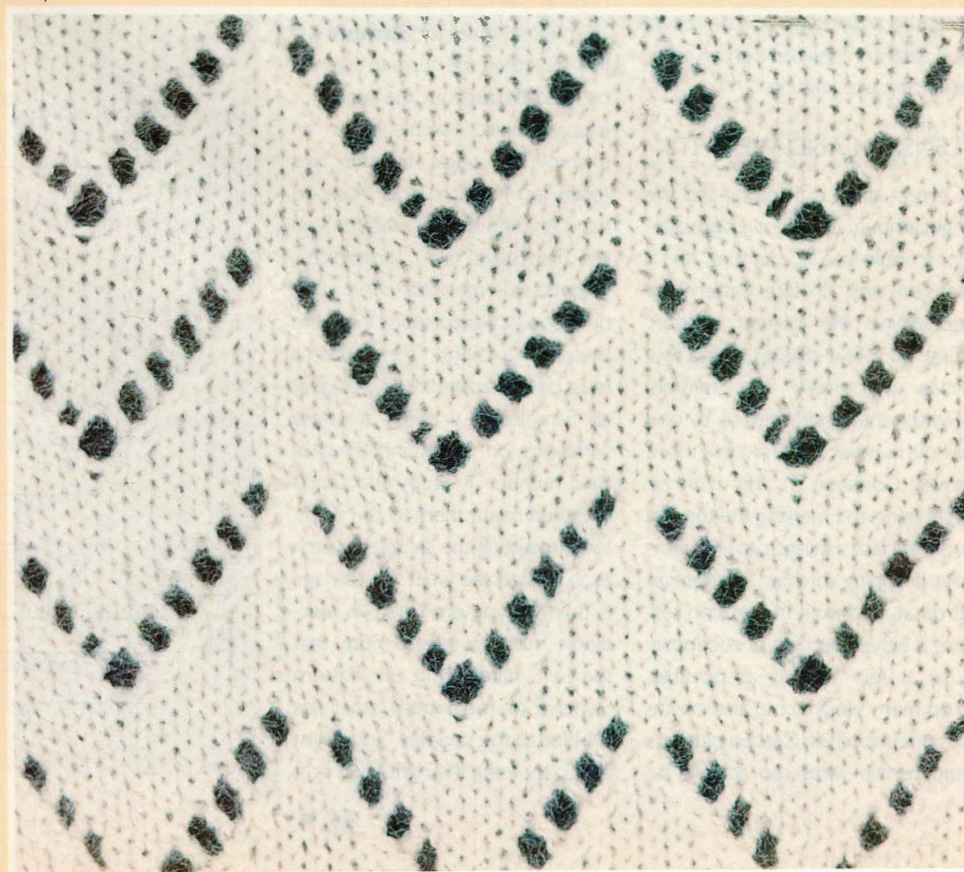
Sample 1



Pattern Card for Sample 2.

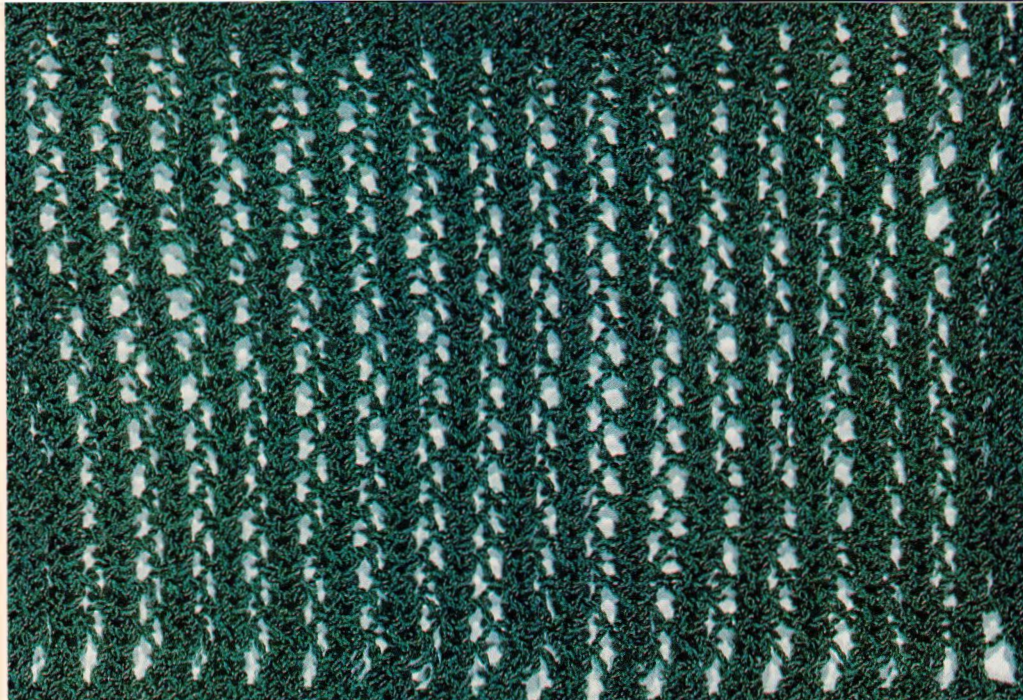
Punchcard and Electronic Silver Reed machines. Arrows show the direction in which the lace carriage moves.

Sample 2

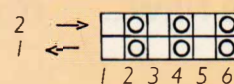


Pattern instruction in standard symbols for Sample 2.

Pattern repeat – 12 sts by 12 rows.

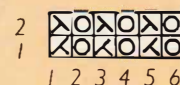


◀ Sample 3



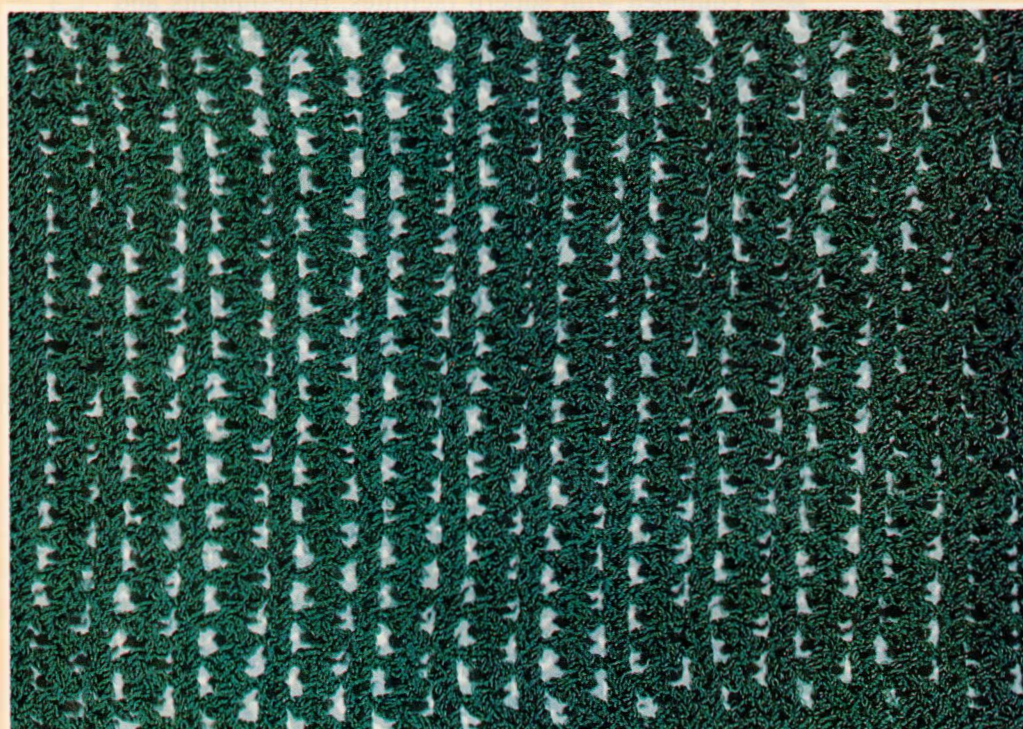
Pattern Card for Sample 3.

Note: This is Card No 1 from the standard pack locked on any row.

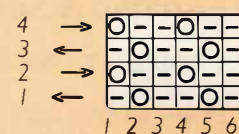


Sample 3

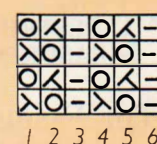
Pattern repeat – 2 sts and 2 rows.



◀ Sample 4

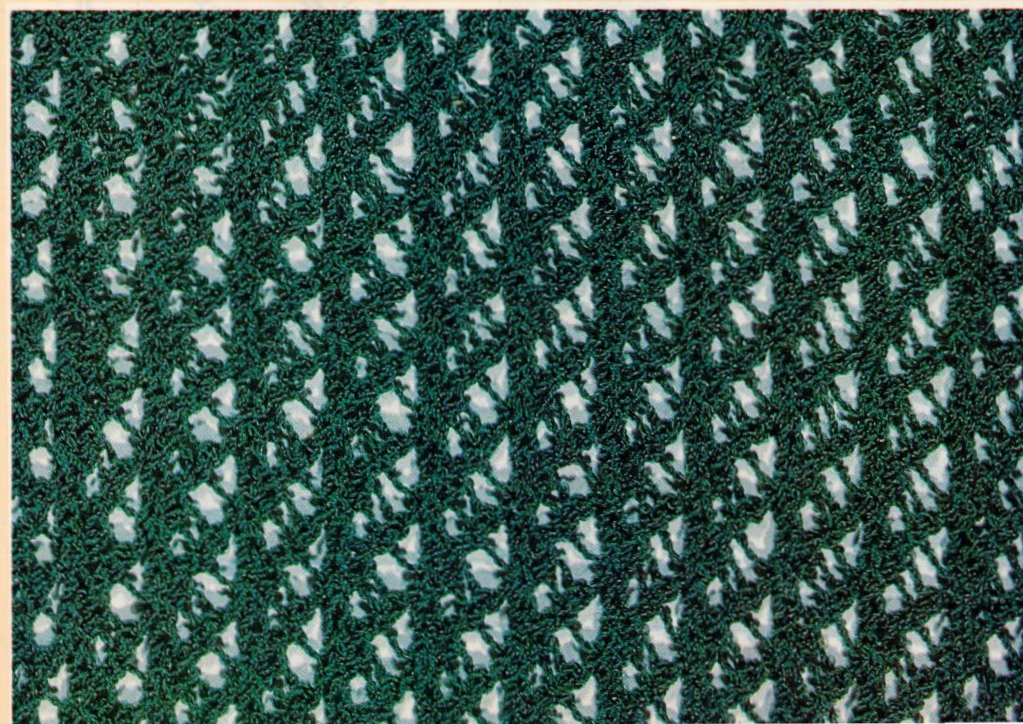


Pattern card for Sample 4.

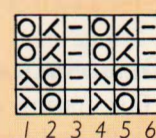


Sample 4

Pattern repeat – 3 sts and 2 rows.



◀ Sample 5



Sample 5

Quiz Pattern Chart.

Pattern repeat – 3 sts and 4 rows.

Solution on page 57.

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Finishing touch

by Angela Gordon

Zipper fastenings provide a simple but effective closing which is commonly used for a variety of garments. They are also suitable for knitwear and offer an alternative to buttons and buttonholes. For a professional finish, follow Angela's zip insertion techniques and tips.

Both modern nylon zips and the heavier duty metal ones are now available in a wide variety of colours, offering us the choice of either matching up the fastener to suit our garment tones, or adding a contrast as a design feature. In the case of jackets, it is essential to purchase an open ended zip of the correct length. Before commencing knitting, do check that the correct length is available as a minor adjustment in the number of rows may be necessary.

The illustrated sample is knitted in Rowan Wool and Cotton (double knit thickness) and Rowan DK Cotton. It is knitted on the standard gauge machine and both yarns went through with ease on tension nine and one dot. The Wool and Cotton absolutely glides through the needles and two strands of this alone makes a very good Fair Isle fabric. The DK Cotton is considerably thicker and although it works well as the contrast yarn, it would be better knitted on a chunky gauge machine if you wish to use two colours of this instead.

I think it is important for the zipper tape to be completely covered. This way, if the jacket swings open when it is unfastened, it looks just as neat on the inside as it does on the outside. The sample shows my two favourite methods for inserting a sandwiched zip. The finish on

the left is produced in stocking stitch whilst the one on the right is in 1 x 1 rib. They are both variations of the same principle, but the stocking stitch one is the easiest to knit so I will describe this first.

STOCKING STITCH BAND

First knit the main garment pieces and attach the neck band. Work out the number of stitches required for the band (or estimate by holding the front edge of the jacket against the needle bed WITHOUT STRETCHING IT).

Cast on the number of stitches you decide upon. I like the e-wrap cast on as, when it is sewn to the zipper tape, it looks rather like a thin rope trim along the edge. If you prefer a chain stitch along the edge, then use the latch tool cast on method. Reduce the tension by two whole numbers less than that used for the main fabric. Fair Isle is generally knitted one number looser than stocking stitch and this is why we reduce by two numbers, instead of the more usual one, to achieve a firm band. Knit seven rows then one row changing the tension setting to three numbers higher. Remove the work from the needles with a garter bar or several rows of waste knitting.

With the right side of one front piece facing, you then pick up the

front edge on to the same needles. Take great care to pick up only one stitch, but it must be a whole stitch, not just one loop, from the edge and keep along one row of the knitting. I always use a three pronged tool and make sure each prong is in the correct place before putting the loops on the needles. Even a slight deviation of half a stitch or less will show when the zipper is in place. Make a note of how many needles are used for the bottom rib and the neckband so that you can make sure the other side matches exactly.

Pull the latches right out through the edge and then return the stitches from the garter bar or waste knitting into the needle hooks (the right side of the jacket front and band are together). Do not allow them to fall behind the latches as you must now pull the stitches through the edge of the fabric by pulling the needles back to normal working position. Close the latches before you do so and you will not catch any of the jacket edge stitches in the needle hooks. Knit six rows and cast off loosely. You should now have a one stitch seam, which is the front edge of the jacket, neatly sandwiched in the centre of the band.

Pin the zipper tape on to the back band piece and neatly sew in place with a matching sewing thread.

Stitch the front of the band against the teeth of the zipper, making the stitching as invisible as possible. I always find it necessary to use a thimble to push the needle through the reinforced edges of the tape. Use a length of the main yarn to sew up the top and bottom edges of the band.

RIBBED BAND

This can be knitted in any rib arrangement to match the welts. For the sample I have used 1 x 1 rib. I generally do not use as tight a tension for the zipper band as I do for the welts. For this double knit yarn I used tension three for the welts and tension four for the band.

Estimate the number of stitches in the same way as for the stocking stitch band. Cast on and knit eight rows at rib tension. Knit one row at tension eight. Make a note of which bed the end needle (either left or right) is on, so that you will return the stitches in the correct order after you have picked up the jacket front.

With the ribbed band there are two methods of holding the stitches whilst picking up the jacket edge:

METHOD ONE

Transfer all stitches from ribber to main bed and remove on a garter



Samples show both sides of the zip insertion.



bar or on to several rows of waste knitting. You can remove the weights but it is important to leave the ribber comb in place.

Pick up the jacket edge with right side facing you, pulling the needles right out to hold. Make sure the latches are open and return the band stitches into the needle hooks. Close the latches, pull the needles back to normal working position and through the jacket edge. Transfer alternate stitches back to the ribber bed needles, making sure that your end stitch is on the same bed as before and the rest will automatically be correct.

METHOD TWO

Transfer all the stitches from the main bed to the ribber bed needles. Bring all corresponding needles in between to working position on the main bed. Lower the ribber bed and pass the jacket front between the beds. With right side facing you, pick up the jacket edge stitches on to the main bed needles. Pull the needles right out to holding position and then return them carefully until the latch spoons are adjacent to the sinker posts. Make sure the latches do not catch any of the jacket fabric as they start to rise up.

Raise the ribber bed, set the ribber to half pitch and use the P carriage to bring the ribber bed needles up to transfer position. Transfer all stitches from the ribber needles to the main bed needles and pull them right back to working position and through the jacket edge.

Return the ribber pitch lever to P unless you are knitting a half pitch rib. Transfer alternate stitches back to the ribber needles, making sure you have the end needle in the same position as before.

NOW FOR BOTH METHODS CONTINUE:

All empty needles should be in non-working position and the cast on comb and weights should still be attached. Knit seven rows and cast off loosely. Attach to the zipper tape as described for the first sample.

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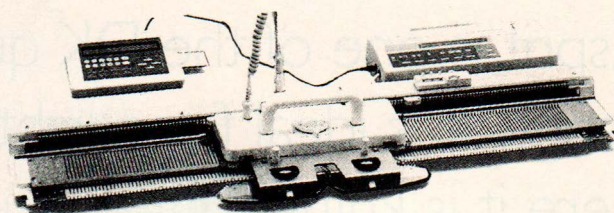


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VISA

Bobbles & hems sweater

Esprit is one of the DK qualities in the King Cole yarn range. It is ideal for a lightweight chunky look and here it is knitted into a fun design with contrast bobbles and picot hems for surface detail.

BACK

With ribber in position and carriage at left, set machine for 1x1 rib. Push 51 (54) Ns at left and right of centre 0 to WP. 102 (108) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1x1 rib. Using MC and elastic, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1x1 rib knitting. Set RC at 000. Using MT-3/MT-3, K 31 rows. Break elastic. Transfer sts for st st. Set RC at 000. Using MT, cont in bobble patt. K 74 rows.

Shape Armholes

Cast off 12 sts at beg of next 2 rows. 78 (84) sts. K 4 rows. Cont in picot hem patt *. K 60 rows. Cont in st st and MC, K 4 rows. RC shows 144. Cast off 21 (24) sts at right. Using a length of MC, cast off 21 (24) sts at left. Using WY, K a few rows over rem 36 sts and release from machine.

FRONT

Work as for back to *. K 44 rows.

Shape Neck

Push 48 (51) Ns at left to HP. Cont on rem sts for first side. K 1 row. Cast off 2 sts at beg of next and foll 2 alt rows, K 1 row. Dec 1 st at beg of next and foll 2 alt rows. 21 (24) sts. K 4 rows. Cont in st st and MC, K 4 rows. Cast off. With carriage at right, push centre 18 Ns from HP to UWP. Using WY, K a few rows and release from machine. With carriage at left, push rem Ns from HP to UWP. Finish to correspond with first side, reversing shapings.

SLEEVES

Push 29 Ns at left and right of centre 0 to WP. 58 Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MC, K 4 rows. Shape sides by inc 1 st at each end of next row, K 3 rows. Cont in picot hem patt from * to *, then from * to ** and, AT THE SAME TIME, cont to inc on every 5th row from previous inc until there are 70 sts. K 2 rows. RC shows 32. Cont in bobble patt and cont to inc on

FOR 9 mm CHUNKY AND 6.5 DOUBLE KNITTING MACHINES WITH A RIBBER.

SIZES:

To fit 82-87 (92-97) cm, 32-34 (36-38) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:

King Cole Esprit DK.
MC (Natural) – 9 (10) x 50 grm balls.
A (Terracotta) – 2 x 50 grm balls.
B (Sunshine) – 2 x 50 grm balls.
Spool fine cream knitting-in elastic.

TENSION:

Stocking Stitch – 20 sts and 28 rows to 10 cm. TD at approx 3 (MT) on 9 mm chunky (6 (MT) on 6.5 double knitting) machines.

ABBREVIATIONS:

See page 62.

PATTERN NOTE:

Shaping is worked on st st rows only – not on hems.

Bobble Pattern

Using MC, K 12 rows. Make a bobble using A over 1 N at left and 2 Ns at right of centre 0 and every foll 12th, 13th and 14th Ns at left and right of centre bobble as follows:–
* K 5 rows by hand. Pick up 3 loops from last row worked in MC and place on to corresponding Ns *. Using MC, K 12 rows. Using B, make bobbles from * to * over centre 3 Ns between previous bobbles.

Picot Hem Pattern

* Cancel RC. Using A, K 6 rows. Transfer every alt st to adjacent N, leave empty Ns in WP. K 6 rows. Pick up loops from last row worked in MC and place on to corresponding Ns. Reset RC. Using MC, 4 rows. Cancel RC. Using B, K 6 rows. Transfer every alt st to adjacent N, leave empty Ns in WP. K 6 rows. Pick up loops from last row worked in MC and place on to corresponding Ns. Reset RC **. Using MC, K 16 rows *. Rep from * to * twice more.

If you have any problems locating King Cole Esprit DK, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.
King Cole Ltd, Merrie Mills, Old Soul's Way, Bingley, West Yorkshire BD16 2AX



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Signed _____

With P side of sleeve facing, replace sts below WY on to Ns gathering evenly. Using MT, K 1 row. Cast off.

NECKBAND

Join right shoulder seam. Push 86 Ns to WP. With P side facing, pick up 36 sts across back neck, 16 sts down right side of front neck, 18 sts across front neck and 16 sts up left side of front neck and place on to Ns. Set RC at 000. Using MT and MC, K 3 rows. Using MT-, K 3 rows. Using MT-., K 3 rows. Using MT-I, K 3 rows. Transfer every alt st to adjacent N, leave empty Ns in WP. K 3 rows. Using MT-., K 3 rows. Using MT-, K 3 rows. Using MT, K 3 rows. Cast off.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on ball band, pressing hems flat.

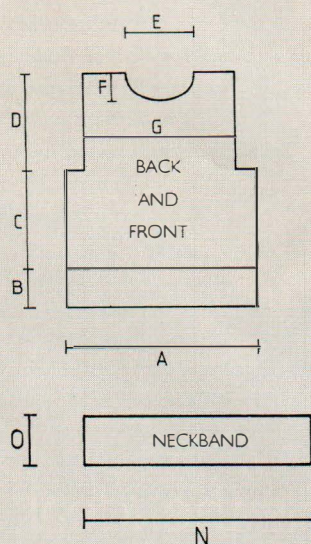
MAKING UP

Join left shoulder and neckband seam. Set in sleeves sewing rows above markers to cast off sts at armholes. Join side and sleeve seams. Fold neckband in half to inside and catch down.

every 5th row from previous inc until there are 100 sts. K 3 rows. RC shows 108. Place marker at each end. K 16 rows. Place marker at centre 0. Cast off.

CUFFS

With ribber in position and carriage at left, set machine for 1 x 1 rib. Using MC and elastic, cast on 40 sts in 1 x 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 x 1 rib knitting. Set RC at 000. Using MT-3/MT-3, K 20 rows. Break elastic. Transfer sts for st st.



A = 51 (54) cm
B = 9.5 cm
C = 26 cm
D = 25 cm

E = 18 cm
F = 7 cm
G = 39 (42) cm
H = 14 cm (unstretched)
I = 6.5 cm
J = 29 cm
K = 38.5 cm
L = 6 cm
M = 50 cm
N = 43 cm
O = 9 cm

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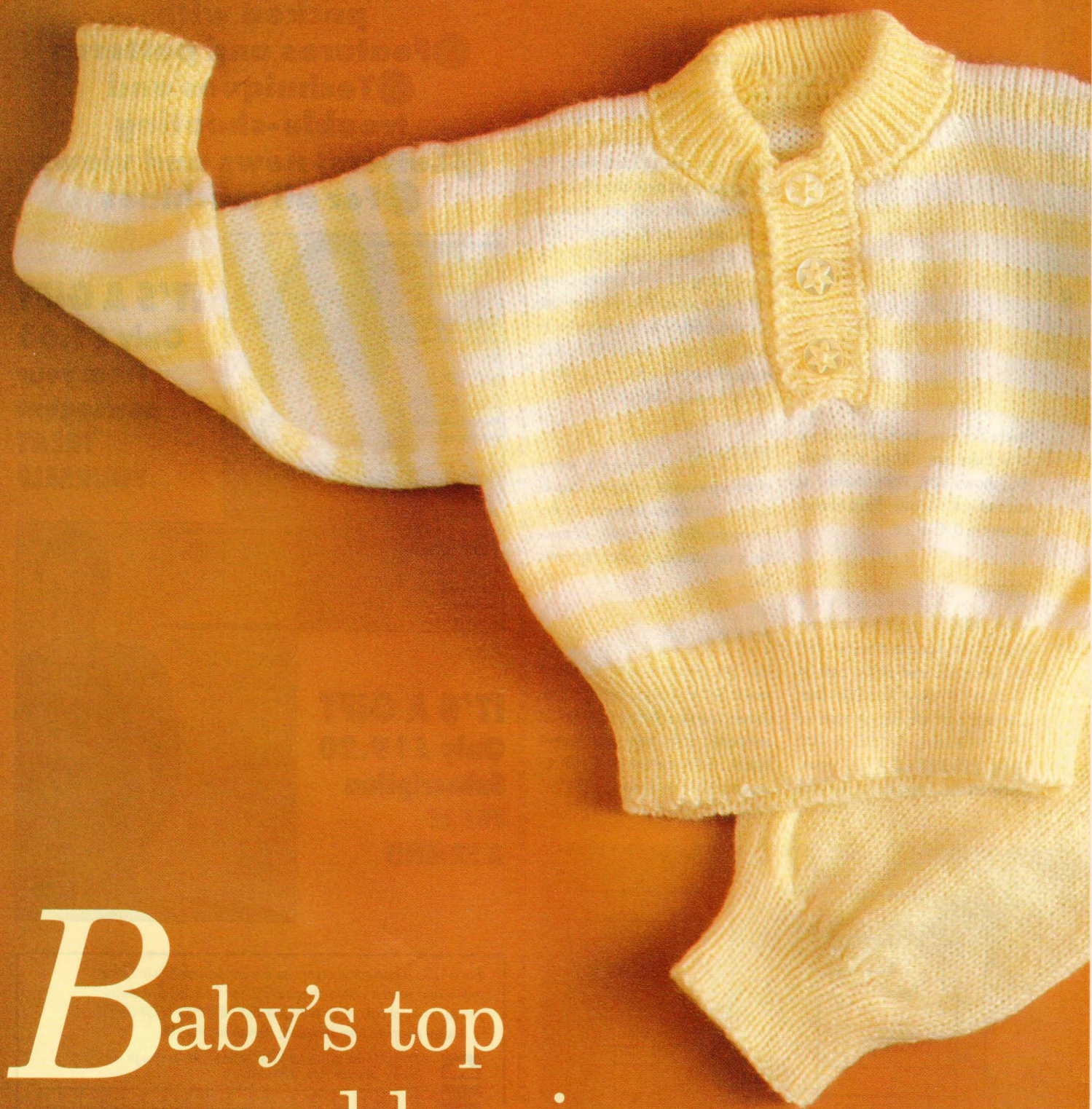
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*B*aby's top and leggings

Fresh stripes of lemon and white make this the ideal two-piece for boy or girl. The leggings are elasticated at the waist and the top has a buttoned front opening to make dressing easy.



STRIPE PATTERN

K 4 rows C and 4 rows MC. These 8 rows form pattern.

SWEATER**BACK****MACHINES WITH RIBBER**

With ribber in position and car-

riage at right, set machine for 1 × 1 rib. Using MC, cast on 72 (80, 88) sts in 1 × 1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 71 (80, 86) Ns to WP. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left.

MACHINES:

This pattern is suitable for standard gauge machines with or without a ribber.

MATERIALS:

Baby Bramwell.

Sweater

1 (1, 1) × 350g cone in Lemon (MC).

1 (1, 1) × 350g cone in White (C).

3 small buttons.

Leggings

1 (1, 1) × 350g cone in Lemon (MC).

Elastic to fit waist.

YARN THICKNESS:

See page 62.

MEASUREMENTS:**Sweater**

To fit chest 46 (51, 56) cm, 18 (20, 22) in.

Actual size 50 (56, 61) cm, 19¾ (22, 24) in.

Length to shoulder 24 (28, 32) cm, 9½ (11, 12½) in.

Sleeve seam 22 (24, 26) cm, 8¾ (9½, 10¼) in.

Leggings

Actual size 49 (54, 60) cm, 19¼ (21¼, 23½) in.

Inside leg 32 (34, 36) cm, 12½ (13½, 14¼) in.

TENSIONS:

28 stitches and 40 rows to 10 cm, 4 in measured over stocking stitch (tension dial setting approximately 7).

28 stitches and 44 rows to 10 cm, 4 in measured over stocking stitch on MT-1 (tension dial setting approximately 6).

For perfect results, please check your tension carefully.

ABBREVIATIONS:

See last page.

PATTERN NOTE:

We used knit side of knitting as right side of garment. Count Ns in NWP as sts throughout on machines without ribber. When shaping in HP, always take yarn round first inside N in HP to prevent a hole forming.

If you have any problems locating Baby Bramwell, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

F. W. Bramwell & Co, Unit 5, Metcalf Drive, Altham Lane, Altham, Accrington BB5 5TU

Set RC at 000. Using MT-2 and MC, K 37 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed *. Inc 1 (0, 2) sts. 72 (80, 88) sts.

ALL MACHINES

Set RC at 000. Using MT, cont in stripe patt. K 28 (40, 52) rows. Work measures 12 (15, 18) cm, 4¾ (6, 7) in. Place marker at each end **. K 48 (52, 56) rows. RC shows 76 (92, 108) and work measures 24 (28, 32) cm, 9½ (11, 12½) in.

Shape Shoulders

Cast off (13, 15) sts at beg of next 2 rows and 11 (13, 15) sts at beg of foll 2 rows. Cast off rem 26 (28, 28) sts.

FRONT

Work as for back to **.

Divide for Front Opening

Using a length of MC, cast off centre 6 sts. Using nylon cord, K 33 (37, 41) Ns at left by hand, taking Ns down to NWP. Cont on rem sts for first side, K 31 (31, 35) rows.

Shape Neck

Cast off 4 sts at beg of next row. Dec 1 st at neck edge on every row until 23 (26, 30) sts rem. K 10 (13, 13) rows.

Shape Shoulder

Cast off 12 (13, 15) sts at beg of next row. K 1 row. Cast off rem 11 (13, 15) sts. With carriage at left, unravel nylon cord over rem Ns, bringing Ns back to WP. Finish to correspond with first side, reversing shapings.

SLEEVES**MACHINES WITH RIBBER**

With ribber in position and carriage at right, set machine for 1 × 1 rib. Using MC, cast on 42 (44, 46) sts in 1 × 1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 22 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 41 (44, 44) Ns to WP. Work as for back from * to *. Inc 1 (0, 2) sts. 42 (44, 46) sts.

ALL MACHINES

Set RC at 000. Using MT, cont in stripe patt. K 4 (4, 6) rows. Shape sides by inc 1 st at each end of next and every foll 5th row until there

are 68 (74, 78) sts. K 3 (1, 2) rows. RC shows 68 (76, 84) and work measures 22 (24, 26) cm, 8¾ (9½, 10¼) in. Cast off.

BUTTONHOLE BAND**MACHINES WITH RIBBER**

With ribber in position and carriage at right, set machine for 1 × 1 rib. Using MC, cast on 31 (31, 34) sts in 1 × 1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 5 rows. Counting from right edge make 3 buttonholes, by transferring 5th (5th, 6th), 15th (15th, 17th) and 25th (25th, 28th) sts on to adjacent Ns. Leave empty Ns in WP. K 5 rows. RC shows 10. Transfer sts for st st. K 1 row. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Push 32 (32, 35) Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT-2 and MC, K 4 rows. Counting from right edge, make buttonholes over 5th (5th, 6th), 15th (15th, 17th) and 25th (25th, 28th) sts. K 9 rows. Make buttonholes over same sts as before. K 4 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. K 1 row. Using WY, K a few rows and release from machine.

BUTTONBAND

Work as for buttonhole band omitting buttonholes.

NECKBAND**MACHINES WITH RIBBER**

With ribber in position and carriage at right, set machine for 1 × 1 rib. Using MC, cast on 65 (75, 75) sts in 1 × 1 rib. K 5 tubular rows. Carriage is at right. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT-4/MT-4, K 22 rows. Transfer sts for st st. K 1 row. Using WY, K a few rows and release from machine.

MACHINES WITHOUT RIBBER

Push 65 (74, 74) Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few

rows ending with carriage at left. Set RC at 000. Using MT-1 and MC, K 5 rows. Using MT-2, K 9 rows. Using MT-1, K 5 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. K 1 row. Using WY, K a few rows and release from machine.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

MACHINES WITH RIBBER

Join shoulder seams. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MC. Fold neckband in half to wrong side and slip-hem loosely in position.

Pin button and buttonhole bands down front opening. Unravelling WY as required, backstitch through open loops of last row worked in MC.

MACHINES WITHOUT RIBBER

Join shoulder seams. Pin neckband into position. Unravelling WY as required, backstitch through open loops of last row worked in MC. Finish buttonholes.

ALL MACHINES

Lap buttonhole band over button band and catch down lower ends. Set in sleeves between markers. Join side and sleeve seams. Sew on buttons.

LEGGINGS

LEFT FRONT LEG

Push 35 (39, 43) Ns at left and 7 Ns at right of centre 0 to WP. 42 (46, 50) Ns. Using MT and WY, cast on

and K a few rows ending with carriage at right. Set RC at 000. Using MT-1 and MC, K 124 (132, 140) rows.

Shape Crotch

Cast off 4 sts at beg of next row. K 1 row. Cast off 2 sts at beg of next row. K 1 row. Dec 1 st at beg of next row. 35 (39, 43) sts. RC shows 129 (137, 145) *. Using WY, K a few rows and release from machine.

RIGHT FRONT LEG

Work as for left front leg to * reversing the shaping by reading right for left and left for right. Push 35 (39, 43) Ns at left of centre 0 to WP. With P side facing, replace 35 (39, 43) sts from last row knitted in MC of left front leg on to empty Ns. Unravel WY. 70 (78, 86) sts **. Set RC at 000. K 56 (58, 62) rows.

MACHINES WITH RIBBER

With ribber in position, set machine for 1x1 rib. Transfer every alt st on to corresponding Ns on ribber. Cont in 1x1 rib. Using MT-4/MT-4, K 22 rows. Transfer sts to back bed. Cast off.

MACHINES WITHOUT RIBBER

Dec 2 (1, 0) sts. 68 (77, 86) sts. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT-2, K 18 rows. Push Ns from NWP to WP. K 1 row. Cast off.

BACK LEGS

Work as for front legs to **. Set RC at 000. K 54 (56, 60) rows.

Shape Back

Push 27 (30, 33) Ns at opposite end to carriage to HP on next 2 rows. Push 9 (10, 11) inside Ns at opposite end to carriage from HP to UWP on next 6 rows.

MACHINES WITH RIBBER

With ribber in position, set machine for 1x1 rib. Transfer every alt st on to corresponding Ns on ribber. Cont in 1x1 rib. Using MT-4/MT-4, K 22 rows. Transfer sts to back bed. Cast off.

MACHINES WITHOUT RIBBER

Dec 2 (1, 0) sts 68 (77, 86) sts. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT-2, K 18 rows. Push Ns from NWP to WP. K 1 row. Cast off.

LEG CUFFS (TWO)

Join side seams.

MACHINES WITH RIBBER

Push 61 (65, 69) Ns to WP. With P side facing, replace sts from lower edge of leg on to Ns gathering evenly. Using MT-1 and MC, K 1 row. With ribber in position, set machine for 1x1 rib. Transfer every alt st on to corresponding Ns on ribber. Cont in 1x1 rib. Using MT-4/MT-4, K 20 rows. Cast off loosely in rib.

MACHINES WITHOUT RIBBER

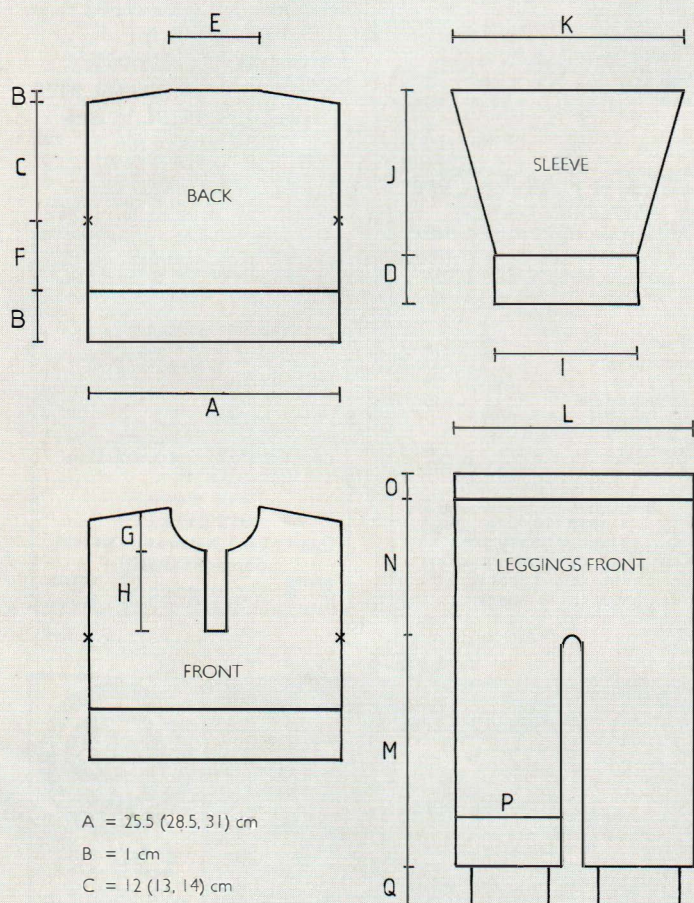
Push 62 (65, 68) Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT-2 and MC, K 31 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. With P side of leg facing, replace sts from lower edge on to Ns gathering evenly. K 1 row. Cast off.

PRESSING

With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join inside leg and crotch seams. Fold waistband in half to wrong side and slip-hem loosely in position, leaving an opening for elastic. Insert elastic and join ends securely. Close opening.



A = 25.5 (28.5, 31) cm

B = 1 cm

C = 12 (13, 14) cm

D = 5 cm

E = 9 (10, 10) cm

F = 7 (10, 13) cm

G = 4.5 (5.5, 5.5) cm

H = 8 (8, 9) cm

I = 15 (15.5, 16) cm

J = 17 (19, 21) cm

K = 24 (26, 28) cm

L = 25 (27.5, 30.5) cm

M = 28 (30, 32) cm

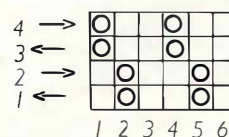
N = 14 (14, 15) cm

O = 2.5 cm (folded)

P = 15 (16, 17.5) cm

Q = 4 cm

QUIZ PATTERN CHART SOLUTION



Sample 5

Pattern card.

Did you spot that this is Sample 4 knitted with the elongation button?

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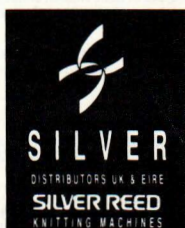
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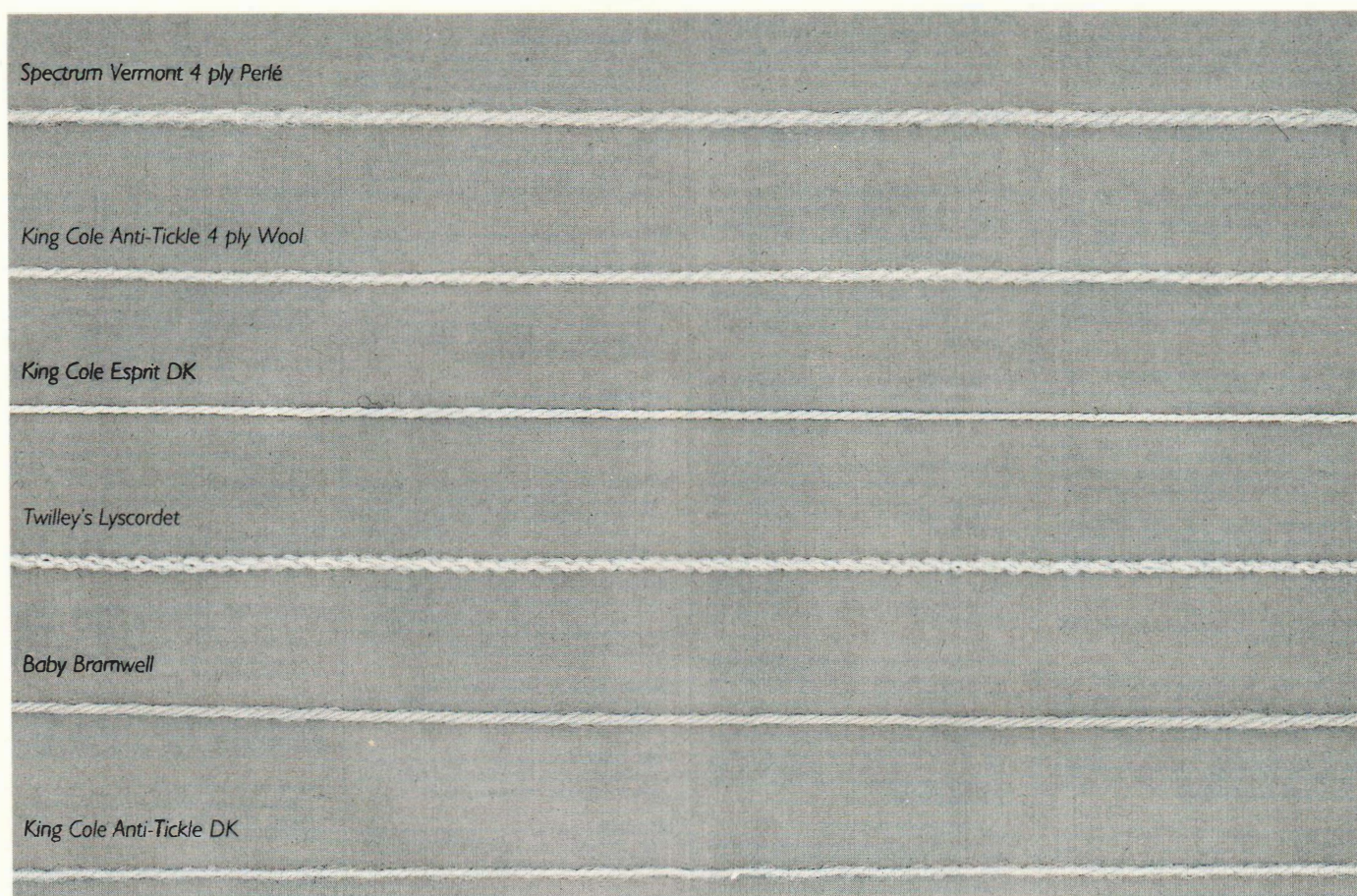
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Yarn thickness guide abbreviations & notes



MOCK RIB *Used for welts, cuffs, neckbands and other edges on single bed machines without a ribber*

Push the number of main bed needles given in pattern to working position. Push every alternate needle back to non working position for a 1 x 1 rib or every third needle back to non working position for a 2 x 1 rib. It may be necessary to reduce this number by one needle at one or both edges to keep rib even. (Increase the stitches after the mock rib has been worked to give the same number as the pattern).

Using main tension and waste yarn, cast on and knit a few rows ending with carriage at left. Set row counter at 000. Using at least two full sizes tighter than main tension, knit the number of rows given in pattern for rib. Using three full sizes looser than this tension, knit one row. (This loose row gives a neat

fold line). Return to two full sizes tighter than main tension and knit the same number of rows as before. Push empty needles from non working to working position and make a hem by placing loops of first row worked in main yarn evenly along the row. Make sure that each empty needle holds a loop to prevent a row of holes across the work.

Unravel waste yarn after work has been removed from machine. After garment has been blocked to size, insert a metal welt bar or a thin, clean piece of wood through the hem and pull firmly downwards to draw stitches of mock rib closer together. Set the stitches by steaming lightly on wrong side, if pressing instructions permit.

ABBREVIATIONS

alt = alternate(ly)
beg = beginning
ch = chain
cm = centimetres
cont = continue(ing)
dc = double crochet
dec = decrease(ing)
foll = following
g = grams
HP = holding position
in = inch(es)
inc = increase(ing)
K = knit
mm = millimetres
MT = main tension
MT-1, MT-2, MT-3 =
one, two, three full sizes tighter
than main tension

MT+1, MT+2, MT+3 =
one, two, three full sizes looser
than main tension
MY = main yarn
N(s) = needle(s)
NWP = non working position
P = purl
patt = pattern
RC = row counter
rem = remain(ing)
rep = repeat
ss = stitch size
st(s) = stitch(es)
st st = stocking stitch
tog = together
UWP = upper working position
WP = working position
WY = waste yarn.

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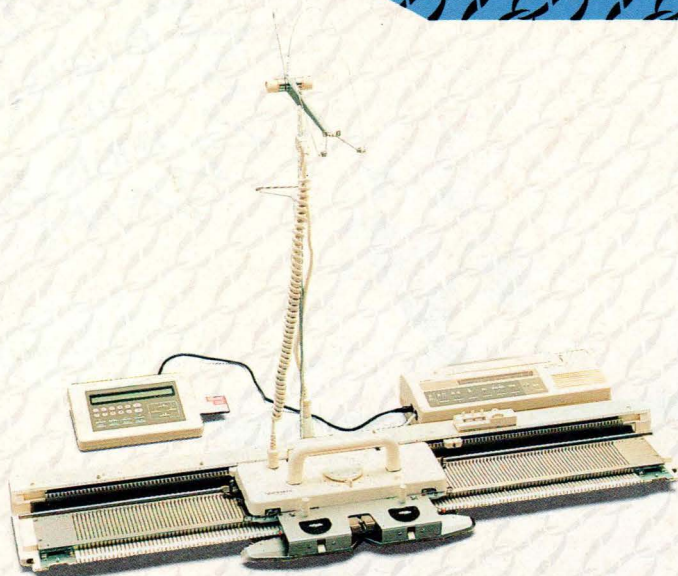
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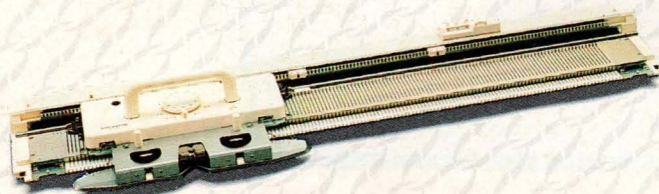
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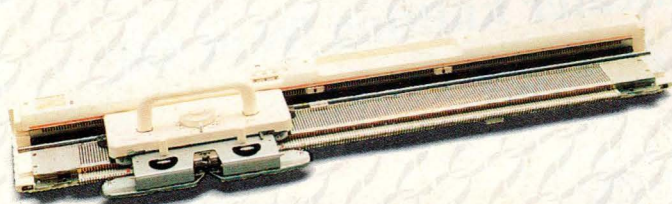
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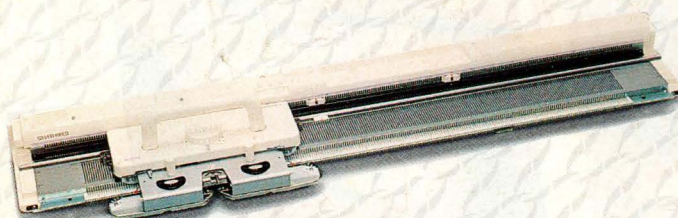
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